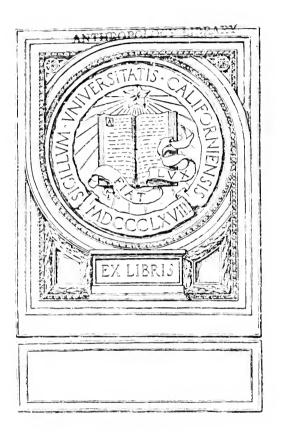


B 3 425 428

FETICHISM.

SCHULTZE











FETICHISM,

A CONTRIBUTION TO ANTHROPOLOGY AND THE HISTORY OF RELIGION.

BV

FRITZ SCHULTZE, Ph. D.

TRANSLATED FROM THE GERMAN, By J. FITZGERALD, M.A.

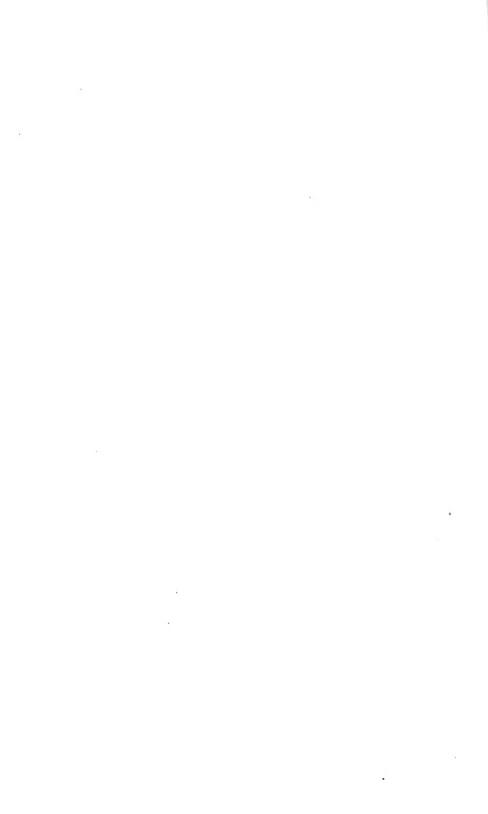


New-York:
THE HUMBOLDT PUBLISHING CO.
No. 28 LAFAYETTE PLACE.

HOLVINA AL TRABALA

CONTENTS.

CHAPTER		FAGE	
I. Introductory.			
II. THE MIND OF TH	HE SAVAGE IN ITS INTELLEC	TUAL AND MORAL ASPECTS 3	
I. The Intel	lect of the Savage		
2. The Mora	lity of the Savage		
2. Conclusion	7		
III. THE RELATION I	BETWEEN THE SAVAGE MINI	AND HS OBJECT	
1. The Valu	e of Objects		5
2. The Anth	ropopathic Apprehension of C	Objects	
3. The Cause	al Connection of Objects		
IV. Fetichism as a	Religion	20	
1. The Belie	f in Fetiches		
2. The Rang	re of Fetich Influence		
3. The Relig	iosity of Fetich Worshipers		
4. Wership	and Sacrifice	4	
5. Fetich Pi	riesthoods		
6. Fetichism	among Non-Savages		
V. The Various O	BJECTS OF FEFICH WORSHIP		
1. Stones as	Fetiches		
2. Mountain	s -s Fetiches		
3. Water as	Fetich		
4. Wind and	đ Fire as Fetiches		
5. Plants as	Fetiches		
6. Animals	as Fetiches		
7. Men as i	Fetiches		
VI. THE HIGHEST G	RADE OF FETICHISM		
1. The New	Object		. }
2. The Grad	dual Acquisition of Knowledge	[, , , , , , , , , , , , , , , , , , ,	
3. The Wor	ship of the Moon		
4. The Wor	ship of the Stars		
5. Transitio	n to Sun Worship		
6. The Wor	ship of the Sun		
7. The Wor	ship of the Heavens		
VII. THE AIM OF F	ETICHISM		
1. Retrestee	C , ,		
2. The New	Problem	H	U



FETICHISM:

A CONTRIBUTION TO ANTHROPOLOGY AND THE HISTORY OF RELIGION.

By FRITZ SCHULTZE, DR. PHIL.

TRANSLATED FROM THE GERMAN BY J. FITZGERALD, M.A. [Copyright, 1885, By J. FITZGERALD.]

CHAPTER I.

INTRODUCTORY.

David Hume was the first in modern times to reject the transcendental theories of Religion and to seek an explanation for it in the empiric world of man, on psychological principles. "No passions," says he, "can be supposed to work upon such barbarians, but the ordinary affections of human life; the anxious concern for happiness, the dread of future misery, the terror of death, the thirst of revenge, the appetite for food and other necessaries. These are their only motives." *

To these motives of fear and hope Hume now adds, on the one hand, man's ignorance of Nature and of its phenomena; and on the other the faculty of imagination, as factors going to make up the notion of God. "We hang in perpetual suspense between life and death, health and sickness, plenty and want, which are distributed among the human species by secret and unknown causes,

whose operation is oft unexpected and always unaccountable. unknown causes, then, become the constant object of our hope and fear; and while the passions are kept in perpetual alarm by an anxious expectation of the events, the imagination is equally employed in forming ideas of those powers, on which we have so entire a dependence. Could men anatomize nature, according to the most probable, at least the most intelligible philosophy, they would find that these causes are nothing but the particular fabric and structure of the minute parts of their own bodies and of external objects; and that, by a regular and constant machinery, all the events are produced, about which they are so much concerned. But this philosophy exceeds the comprehension of the ignorant multitude, who can only conceive the unknown causes, in a general and confused manner; though their imagination, perpetually employed on the same subject, must labor to form some particular and distinct idea of them. The more they consider these causes themselves, and the uncertainty of

^{*} David Hume, Works, Vol. IV.

their operation, the less satisfaction theism; and that for the uncultured do they meet with in their researches; savage everything is God, or may be and, however unwilling, they must at last have abandoned so arduous and attempt, were it not for a propensity in human nature, which leads into a system that gives them satisfaction, acter of man," and "objectively in There is a universal tendency among mankind to conceive all beings like He holds that primitive man was themselves, and to transfer to every object those qualities with which they are familiarly acquainted, and of which they are intimately conscious. We find human faces in the moon, armies in the clouds, and by a natural propensity, if not corrected by experience and reflection, ascribe malice or good-will to everything that hurts or pleases us. Hence the frequency and beauty of the prosopopaia in poetry, where trees, mountains and streams are personified, and the inanimate parts of nature acquire sentiment and passion." "No wonder, then, that mankind, being placed in such an absolute ignorance of causes, and being at the same time so anxious concerning their future fortune, should immediately acknowledge a dependence on invisible powers, possessed of sentiment and intelligence." Such is the account which Hume gives of Polytheism. He does not, it is true, make an application of his theory to Fetichism directly, though much of what he says about the rise of Polytheism will serve equally well to account for fetichism.

Benjamin Constant, inasmuch as he looks for the origin of religion in man himself, agrees with Hume; but inasmuch as he postulates a special faculty, "the religious sentiment," which is not demonstrable, he again quits the empirical standpoint. Meiners, in his History of Religions, agrees fully with Hume, whose theory he states, and then makes this application of it to the subject of feti-chism: "Fetichism," says he, "is not only the most ancient, but it is also the most universal form of religion. It furnishes incontrovertible proof that the lack of correct knowledge was the true and only cause of poly-

God." * Kaiser, in his "Biblical Theology," places the origin of religion, not in this or that sentiment, but "subjectively in the entire char-Nature, to which man is related." † without the impress of Spirit, that he was developed out of inferior organisms and that his first attempt at a religious belief took the form of fetichism. "The first, or the best piece of wood, or stone he meets,some animal, some star will be esteemed a god." "While the intellectual faculties are still dormant, and in the absence of knowledge and experience, of invention and culture, whether mental or moral, we are not to be surprised if man regards proximate causes as ultimate, and pays worship to material objects, especially those which arrest his attention by their brightness, their velocity, their great size, etc." "The necessities of the case, and history itself prove that fetichism is the primitive religion of man. The base of human culture rests upon the earth, but its summit penetrates the invisible spaces of heaven, and reaches into infinity."

This theory of Kaiser's, in so far as it differs from Hume's and agrees with that of Meiners in asserting that fetichism is the primitive religion, is rejected by Theodor Waitz in his "Anthropology of Savage Tribes." He holds with Hume, that "a rude systemless Polytheism" was the primitive religion; and his arguments are identical with those of Hume as already set forth.‡ According to him,

*C. Meiners, Allg. Krit. Gesch. d. Religionen. Hannover, 1806, Vol. 1. S. 143.

[†] Gottl. Phil. Christ. Kaiser, Die biblische Theologie oder Judaismus u. Christianismus nach der grammatisch-historischen Interpretationsmethode u. nach einer freimuthigen Stellung in die Kritisch-vergleichende Universalgeschichte der Religionen und in die universale Religion. Erlangen, 1813. Theil,

^{1.} S. 2. † Th. Waitz, Anthropologie der Natur-

fetichism springs from polytheism, and here he agrees with Pfleiderer. But whereas according to Pfleiderer external causes bring about its development, Waitz assigns for it causes purely internal and psychological. "The negro," says he, "carries the belief in an animated Nature to its uttermost limits; but as his mind is too rude to conceive of one universal animated nature, his imagination leads him to regard every trifling object around him as endowed with life. In every material thing he sees a spirit, often of great power, and quite disproportionate to the object itself." This object and this spirit make up a whole, the fetich. Waitz, however, does not explain to us the reason why the savage takes this view of material and inanimate things, and yet this is a question of high importance.

And precisely this point do I find treated with great clearness by Reinhard in his valuable "Historical Sketch of the Rise and Progress of Religious Ideas."* From the fact that religion is to be found among men, whatever their condition, he concludes that it must have its basis in the human mind itself, and he holds that if we would study the origin of religious ideas we must go back to the ages of barbarism, that is, to primitive times. That religion then was monotheistic cannot be shown: but on the other hand fetichism always characterizes the lowest stage of intellectual development. The account given by Reinhard of the rise of fetichism, being substantially that which is set forth in the present work, need not be given here, as it will be found in full detail in the subsequent chapters; and as Feuerbach agrees in essentials with Reinhard it will be enough to make a general reference to his work upon this subject.†]

*Phil. Christ. Reinhard, Abriss einer Geschichte der Entstehung der religiösen Ideen. Jena, 1794.

The true way of arriving at an understanding of fetichism is by observing savage life; and here, books of travel are of great importance. Among these there is none more instructive than A. Bastian's "Visit to San Salvador, Capital of the Kingdom of Congo: a Contribution to Mythology and Psychology." * As the author never transfers to the savage own thoughts and motives, but views him as he is, from the psychological point of view, his work is properly called a contribution to psychology, and with equal justice a contribution to mythology, since fetichism is the first step in religion.

CHAPTER II.

THE MIND OF THE SAVAGE IN ITS IN-TELLECTUAL AND MORAL ASPECTS.

By fetichism we understand the religious veneration of material objects. If such objects are to be worshiped, they must first of all appear to be worthy of veneration, or, in other words, the worshiper must so consider them. The fetich, however, e.g. a piece of metal, still continues to be, in external form and in essential constitution, the self-same thing, whether observed by a European or by an African. Hence that which renders it a fetich is nothing intrinsic to the thing itself, but the view which the fetichist takes of it. If therefore we would understand fetichism in its true nature, we must investigate the savage's mode of apprehending objects, or in other words, we must study the intellectual status of the fetichist. Fetichism has an historical position in all nations which stand lowest in intellectual development, among savages, so-called. Our first

ligion. Vorlesungen über das Wesen der Religion. Nebst Zusätzen u. Aumerkungen. Leipzig, 1851.

^{*} Afrikanische Reisen von Dr. A. Bastian. Ein Besuch in San Salvador, der Hauptstadt † Ludwig Feuerbach, Das Wesen der Re- der Königreichs Congo. Bremen, 1859.

FETICHISM.

the savage's intellectual status. We propose therefore to sketch the savage mind first in its logical, and then in its ethical aspects.

1. The Intellect of the Savage.

only of those objects which are given to it in experience, and its range is diminished. Hence it is only in proconsequently restricted by the limits of its experience. But what are the objects of experience? Those which are to be found in the man's world: and hence a man's cognitions can never go beyond his world. We say his world, meaning the universe, as far as he knows it. If therefore we would fix the intellectual status of any individual, we must first ascertain the number and the nature of his cognitions or objects.

As the understanding, then, has no cognitions save those which come to it out of its world, it follows that the differ from those of another, just as their respective worlds differ. Thus Eskimo's cognitions are different from those of a Hindu, in proportion as their respective worlds differ; and they mutually resemble each other, in proportion as their worlds The *number* of objects are alike. (cognitions) differs in the same way. Thus the savage has but few, while the civilized European has many. From the paucity or the multiplicity of these flow consequences of the highest importance for a just estimate of the respective individuals. greater the number of objects which a man has, the better equipped and the more cultivated will be his understanding, the more alert his thinking faculty, and the higher his development as a human being. On the other hand,

task, accordingly, will be to ascertain ally true that man grows only as he apprehends objects.

The most fully developed intellect, therefore, is that which possesses the greatest number of objects. But if I would have many objects, I must discriminate and distinguish between them sharply: for unless they be thus The understanding has cognition defined, they tend to amalgamate, and so the number of objects would be portion as the understanding draws distinctions, that its objects are manifold and varied; and vice versa, it can make sharp distinctions only where its objects are varied. From this it follows that the faculty of accurate thinking or of sharply defining depends immediately and necessarily upon the number of the objects; so that, given the number of a man's objects, we might determine the strength or the feebleness of his thinking powers, or of his intellectual faculty. the objects are distinct only in so far as the understanding discriminates benumber and the nature of one man's tween them, the number of the obcognitions, or objects-in other words, jects must depend upon the sharpthe empiric contents of his mind-will ness with which these distinctions are drawn.

The status of a people as regards the sum total of cognitions held by a civilization might be determined by mountaineer is different from that the greater or less accuracy with which held by a seafaring man; and an they discriminate between objects: and the lowest grade of culture will accordingly be characterized by a lack of the power of discrimination. the domain of thought that man only will attain eminence who can make distinctions where others do not. All erroneous and illogical thinking owes its rise to a weakness of the intellect. which fails to perceive really existent The critic is a critic distinctions. only in so far as he perceives distinctions, and consequently disparity, between objects which another takes to be identical. We call a man well-bred. or refined, in the social sense, who in every circumstance of life knows how to adapt his demeanor to the various individuals he meets with: but this he cannot do unless he can appreciate the fewer his objects, the lower is his differences of character and of cirgrade of development. It is univers- cumstance. The rude and unobservant treat all alike, under all circum- hence the child's world and intellect stances, as though no differences ex- are ever expanding. isted. A man of refined moral sense is he who, in judging of what is due is no such commerce between his little to each individual, makes the nicest world and the great world around, and distinctions: and, on the other hand, hence he fails to advance beyond a the less accurate the distinctions a certain degree of sensuous apprehenman makes in moral questions, the sion. When our child has made some more one-sided, prejudiced, and vicious he will be.

Accordingly, the lowest stage of intellect is characterized by a lack of many distinctions which are found in higher stages: or in other words by the absence of many objects possessed earth, and of foreign countries and

by the higher stages.

oped intelligence, one which is under the blackboard, as it were. His will veloped has a very contracted sphere also is disciplined and his passions of objects. The world it inhabits, its controlled; he is taught how best to object-world, must be very narrow and shape his conduct, and hence he is restricted. Consider only the grade not under the necessity of making a of intelligence which animals attain, long series of painful experiments. and the number of objects which they But these intellectual notions and obhave: both stand equally low. The jects are utterly wanting in the world intellect of the child is less developed, which surrounds the savage. His logically and ethically, than that of whole life long he continues in the the adult; and the reason is, that the stage of mere sensuous apprehension; objects of the former are inferior to and even this will fail to furnish him those of the latter, whether as regards with as many objects as the child their number or their value. child is yet ignorant of those things only that which is within our world. which are the objects of the adult. What then does a savage see, an Es-Abstract conceptions, such as virtue kimo for instance? Ice and snow, and vice, are strange and incompre- bears and fishes, and—Eskimos. hensible to him. His conceptions are Nothing more; for "the whole exall of a concrete nature, such as are panse of Greenland is in great part given him in his world; and this covered with ice from 2000 to 3000 world is restricted to the nursery, to feet in thickness, as we judge from the his home, or to the town in which he height of the fragments of glaciers lives, all regarded as objects of sense. dropping into the sea." Nature there-His world widens by degrees, but it fore presents to the contemplation of is only by becoming engrossed with the Eskimono objects, save ice: there still new objects, that he reaches the is no change, but everlasting samestage of culture attained by his times ness; and man too remains unchanged or by his nation. If these objects had and undeveloped. With regard to the not been presented to him, he would Eskimos, Captain Parry says that have remained a child all his life, as they are not aware that there is any far as intellectual growth is concerned. world different from their own, or that The child's world is contracted, and Nature may wear an aspect other than so is his intellect: but this world of that with which they are familiar. his lies immediately within the com- The savage's world is narrow, the pass of a larger world. Betwixt the number of his objects contracted, and two there exist most intimate relations. therefore is his intellect undeveloped. and an uninterrupted commerce, and Hence the broader the world in

But in the case of the savage there progress in the formation of sensuous conceptions, he comes in contact with a whole world of abstract and scientific notions, which are instilled into his mind at school. He learns reading and writing, and hears of heaven and nations. The results of centuries of As compared then with a well devel- laborious study are set before him on The possesses: for we can contemplate which a man lives, and the more his nor can it increase, for he never quits vatious conceptions are multiplied, the better equipped is his brain for the ex- objects. The necessary consequence, ercise of thinking; and vice versa, the on psychological grounds, is that he narrower his world, and the fewer his is unable to apprehend or to think conceptions, the less practized is his like a civilized European. It is for brain in making distinctions, and the this reason that the instruction conless able is he to think. It is a truth veved to savages by the missionaries confirmed by every one's experience is received by them "as meaningless that the thinking faculty, like every words, and quickly absorbed into their other, needs practice to give it dex- fetichism, without producing any lastterity; and that unless it is rigor- ing effect." Their power of apously and continuously exercised, prehending must be exceedingly feeit will still lack expertness, no mat-ble, and they "will not trouble their ter what may be the natural advan- brains with nice distinctions." † Now tages. If a man begins to be a we can understand why it is that student at forty, without any previous "thinking is a very laborious exercise acquaintance with books, he sets a for the savage;" and also why it is task for his intractable brain which that "when he is questioned as to init is still as ill-fitted to perform, as a tellectual things, he quickly complains Chinese lady with compressed feet of weariness and headache." ‡ The would be to dance like Pepita. For thinking faculty of the Bushman is "passé cet âge, les opinions sont unable to seize the simplest ideas and faites; quant aux fondements, ils is characterized by extreme stupidity.\$ sont bâtis, maçonnés, inébranlables; The Abipones, who are more advanced autour d'eux l'habitude, la paresse in culture than the Bushmen, have d'esprit, les occupations pratiques numbers only as high as three. Four sont comme un ciment que rien ne they express by three-and-one; five. peut dissoudre." *

let us consider the state of some hands and feet: but when the number wretched savage, some native of Tierra exceeds twenty, they express it by del Fuego, for instance. He has taking up in the hand an indefinite never come in contact with civiliza- quantity of sand. The Corannas extion, has never heard of abstract terms, perience difficulty in counting beyond nor knows anything of the outer three; ¶ a nation in Guinea has numworld, which for him is undiscovered bers as high as five,** and some Braland, as was the New World for zilian aborigines, as high as four: Europeans before Columbus's times. He knows only the barren deserts of his native home, where there are neither towns nor houses. He has never entered a school; and his only desire is the gratification of his hunger, his lust and his indolence. His conceptions are all sensuous, nor are these numerous, being such only as come to him from the few miles of territory around him-from wastes and bare rocks, from birds and fellow-savages. Hence the number of his concrete notions is very small;

by the fingers of one hand; ten, by Bearing these principles in mind, those of both hands; twenty, by the whatever exceeds that number is

Taine, Les Philosophes Classiques du XIX. Siècle en France.

^{*} Bastian, S. 102, Aumerkung.

[†] Ibid. 143. This does not imply the incapacity of a savage's child, when instructed, to attain a higher degree of intellectual culture. "The negro is tolerably apt to learn, but his whole development depends on the first instruction he receives. When taken into the factories, his brain is a tabula rasa, but ready to receive new impressions." (Bastian, 140.)

Burchell, Travels in the Interior of S. Africa, II. p. 307.

[§] Ibid. I. 338.

M. Dobrizhofer, Historia de Abiponibus. Vienna, 1784.

[¶] Campbell, Travels in South Africa, 71,

^{**} Bowdich, Mission to Ashantee, 542.

many.* It is difficult for us to imag- meration is defective, apart from all ine ourselves in so lowly an intellect- other reasons, savages fail duly to apual status as this: but that such status preciate the difference between meum is possible, we may see in the analo- and tuum. It needs no words to show gous case of young children, who are that they totally lack all such scientific unable to appreciate a number when it knowledge as is based on measure-But the Amerexceeds four or five. ican Indian, whose world possesses a greater number of objects, and who is continually engaged in the struggle with wild beasts and other foes, leads a more active life. As he has more objects, so he has a greater number of conceptions, and hence his intellectual power is greater. Still his conceptions are little better than mere sensuous impressions. Now these impressions he is receiving daily as long as he lives, and it is no wonder if in distinguishing between them he acquires a degree of acuteness which we lack, owing to our being more taken up with abstract notions. Hence the Indian's nice discernment of scarcely perceptible tracks on the prairie, and of scarcely visible signs in the primeval forest. Hence, too, his power of taking in notions that are somewhat abstract: though power of his must not be exaggerated. "In North America many Indians can count up to a thousand by scoring; "T but only up to a thousand, observe, and that only by scoring. Some African nations use the numbers five or six as the basis of their numeration, instead of ten, so that five-and-two or sixand-one will express seven.‡ It is plain that these tribes must lack all the advantage derived from numeration. They cannot reckon: and yet notonous, stagnant. without reckoning according to the four simple rules of arithmetic, commerce is impossible. It is impossible suum cuique reddere without some system of measurement, and this requires numeration and reckoning. Hence simply for the reason that their nu-

ment.

"They are wont to make an inexact division of time into moons and days, and many of them are ignorant of any division save the diurnal. The day they divide according to the sun's course into three or four parts of indefinite length."* Chronology they have none, nor indeed is such a thing possible among a people whose memory scarce goes back of yesterday. † The mere narration of historical facts were therefore an impossibility for them, even if they had a history. But as their lives are uneventful, they furnish no material for history. Let us consider what events transpire among them that might be deemed worthy of remembrance. The day opens: they feel hungry; they take some game; they sleep; then they "Though the Amerrepeat da capo. ican Indians resemble the natives of Africa and of the Polar Regions in their distaste for work, they differ from them in this that they love repose above all things; while the others rather love to give themselves up to sport and enjoyment. The Indian never exerts himself, except where exertion is unavoidable, and when the hunt is over he enjoys undisturbed repose in his hammock." Hence the life of the savage is uneventful, mo-The individual may be developed to a certain degree; but not so the tribe. "The total development of all the successive generations of a Bushman stock is little more than the development of the first Bushman." § "Some tribes have legends and ballads recounting sundry warlike exploits of their forefathers, but these records do not refer to

^{*} Eschwege, Journal von Brasilien, I. 168. † Wuttke, Bd. I. S. 156.

t Th. Winterbottom, Acct. of the Native Africans in the Neighborhood of Sierra Leone. Lond. 1803, p. 230.

[§] Cf. Kuno Fischer, Logik, 2, Aufl. § 94,

^{*} Wuttke, I. S. 156.

[†] Bastian, S. 100.

[‡] Wuttke, I. S. 164.

^{\$} Cf. the Author's work "Die Thierseele." Leipzig, 1868, Cap. I. § 2.

ages are as destitute of historic rec- neither a comparative degree, nor a ords as though they were the primitive passive voice.* From this we may stock of mankind, and just sprung conclude that the people who speak into existence. who stand considerably above the low-some of the most elementary distincest grade of savagety, have, instead tions between conceptions, and that of history, only genealogies, often they remain through life in the same times of ten generations." Simi- low stage of intellectual development lar genealogical lists, but not so long, in which children among us are are found among Negroes, Indians found when they are learning to and South Sea Islanders: but never speak. It is stated that the Bushmen actual history. In fact, they regard of South Africa are not distinguished the past as very unimportant; and from one another by separate names.† even those among them whose intel- and Herodotus makes the same statelect is somewhat developed prefer ment as to a tribe dwelling in the Salegend to history.

tremely narrow and circumscribed, names." ‡ the number of conceptions formed. Inasmuch as the circle of their by them is necessarily very scanty, conceptions embraces only sensible Their notions are merely of the things objects, it is to be expected that on of sense, and they think not at all—if the whole they will discriminate more by thinking is meant the elaboration nicely between such objects than we of conceptions not immediately refera- can, provided a considerable number ble to sensible objects. He who en- of them come under their cognizance. tertains no thoughts is unable to give. The reason of this is that their senses expression to thoughts. Hence, from are constantly exercised, and that the conditions of life amid which say- they have no abstract notions to diages are placed it flows as a neces- vert their attention. sary consequence, that their language North American Indians perceive diswill be as undeveloped and as scanty tinctions, and mark these distinctions as their circle of conceptions.† They with special names, where we use one can have words only for those objects general term. Thus, for instance, of which they are cognizant. But as in place of our one verb "to go" they these objects are but few; it follows have many words, one signifying "to that their vocabulary must be scant. go in the morning," another "in the Then, inasmuch as they have no ab- evening," another "to go in mocstract notions, they cannot have any casins," etc. Everything is viewed words to express objects not directly as unique and individual, and as perceived by the senses. In the next though it had no connection, no replace their language will be very defi- lation with other things. This is cient in those formulas which simply owing to the fact that the savage does indicate the mutual relations of ob- not compare his conceptions with one jects, as recognized by the human another, a process performed not by mind, and hence will lack inflexions, the senses but by the intellect. Hence conjunctions and prepositions. Ac-it is that the languages of the Indians cordingly the Negro languages are abound in sesquipedalian word-comgenerally very defective: the language | binations to express purely conspoken in Acra and in Fanti has crete notions. But these combinations

events of any antiquity. Most say-neither adverbs nor prepositions: The Greenlanders, these languages are still ignorant of Thara, the Atarantes: "They alone of As the world of such savages is ex- men, so far as I can learn, are without

^{*} D. Cranzen's Historie von Gronland Barby, 1762, L 261.

^{† 17.} Steinthal, Die Mande-Neger-Spra- I. 192, II. 82. chen, psychologisch und phonetisch betrach-11. Berlin, 1867.

^{*} Bowdich, p. 470.

[†] Lichtenstein, R. um südl. Afrika (1803-6),

Cf. Plin. Hist. Nat.

are as void of intellectual suggestion generally rich in grammatical forms to the kernel of the story, they ramble that each of the fragments finds itself away from it, and go into such long amid conditions differing, if only and minute explanations, that at length slightly, from those surrounding the they do not themselves know what others. As the objects differ, so they had intended to communicate.

derstanding, unable to handle all its on one another. different for almost every generation entirely different from one another.‡ Among the Australian tribes, who taboo every word whose sound could remind them of a dead relative, and substitute a new term, elaborate grammars written by the moral character. old missionaries with the assistance of their ingenious penitents would be as unintelligible to the latter as the systems of religion attributed to them." * "The American languages,

as they are minute in describing and in compound words, but poor in every outward aspect and every expression, because the Indians do minor particular of the object; and not think, are such incoherent conthis very minuteness so fatigues and glomerates that when families or distracts the attention, that the main tribes break up, a notable divergence object is often obscured and hid from of language among the sundered view. Awkward story-tellers have the fragments is the immediate conselike habit. Instead of going direct quence." * The reason of this is will the conceptions, and the lan-This redundancy of words is really guages in the same proportion; a sign of a weak and uncritical unfor *mind* and *world* are dependent Whenever material by the principle of unity, savage tribe is not tied down to its Each phenomenon as it appears is native soil by its possessions or taken to be sui generis, and is desig- by some law of necessity, and nated by a special name. Hence wherever its migrations are not such languages, dependent as they checked by the previous occupation are on the slightest external changes of the surrounding country, it readily of objects, must be themselves ever breaks up into smaller clans, and changing, and the more so, as they each one of these will soon have its are not fixed in writing. "In South peculiar dialect. This is the case in African villages, where the children America; and Prince Max von Neuare left by themselves for months at wied gives specimens of thirty-three a time, they often are found, when different North American languages their parents return, to speak a lan- which he himself had met with.† guage unintelligible to the latter, In what was once Spanish North and the missionaries have observed America there are over twenty, and that this language of the children is in all America about 500 languages

2. The Morality of the Savage.

We have seen how narrow and conthis change of language must be of tracted is the intellectual sphere, the still more frequent occurrence. The mental horizon of savage tribes, savage coins new words as he needs owing to the circumstances by which them; and when the laws of gram-they are surrounded. Their mental mar will not bend to his purpose, or power is not greater than that of the when he is ignorant of them, he child. But besides mind, man is also makes laws to suit himself. So long possessed of will, and it is will that as languages are not consolidated constitutes his moral character. Our and fixed in writing, they are ever in present task therefore is to study the process of construction: and the operations of the savage's will, his

^{*} Bastian, S. 38, 39, 40.

^{*} Max von Neuwied, Reise in Brasilien, H.

^{**} Max von Neuwied, Reise in Manager 18 213.

† Ib. II. 445-645.

† Humboldt, Essai polit, I. 352; Adelung und Vater, Mithrid, III. 2, 370; V. Neuwied, II. 302; Beechey, Voy. to Pacific, II. 130.

For Negro languages of, Bowdich, 454.

a definite object. But if the under- it is clear that in proportion races: for one, it will contain many from the natural instincts. tracted. Let us now consider what must be the effect upon the savage's will of a greater or a less number of

That can be an object of will which is perceived by the understanding. The first object which a man is conscious of, and the one which, as being inseparable from himself, he must always have, is himself,* his own organism, and whatever necessarily has its rise in it. Man is an organism: whatever originates in this organism and becomes an object of consciousness—e. g., the natural instincts and appetites (hunger, lust, desire of repose)—must necessarily be also an object for the will; and these objects of the will must exist in all men, whatever their culture, simply because man is an organism. But to these objects which are common to the whole race, others are appended which vary according to the conditions of life in which a man is placed; and in proportion as the world around him is rich or scant in objects, diversified or uniform, his consciousness will take in more or fewer objects.

Hence the objects of will may be divided into two classes: first, those which are inseparable from the organism, and which we may call the Instincts; second, those which are found in the world without. Man

Man's will cannot aim at an ab- wills both of these; still it is clear straction, or at the indefinite, but that, all things else being equal, a must always have its determinate man will expend less will-force upon object. In this it resembles the un-individual objects, in proportion as derstanding, which must also have their number is greater. Further, standing has no conceptions, the will be exerts his will in one direction. can have no objects, for only that he relaxes it in another. Hence the which is the object of the understand- greater the number of objects found ing can be an object of the will, without the organism, and the stronger Hence the savage can desire only the energy of will with which they those things which are found in the are desired, the more is the will world of which he has cognizance, withdrawn from those immediately But this world is different for different connected with the organism, that is, objects; for another, but few. As versely, too, the fewer objects a man for the savage, his world is very con- has, derived from the outer world, and the less his will is attracted by these. the more will he be controlled by his instincts, and the more time and attention will be devote to the gratification of these. Hence it is no wonder if the so-called civilized man controls his instincts more easily than the sayage, seeing that his will is directed toward so many objects outside his organism. But on the other hand, we need not be surprised at finding savages, who are controlled by these instincts, committing excesses in the gratification of them, which to us appear to be brutal and shameless.

The savage has no intellectual objects, and consequently no intellectual occupations. He can occupy himself only with such objects as are given to him in consciousness; hence only with such as remain after we shut out all intellectual objects, viz.: hunger, lust, indolence. As objects in the external world he has none, or but few, he cannot occupy himself with them.

When he has appeased his hunger, there is nothing more for him to do, so he will play, or sleep, or engage in debauch; and as this is the only course open to him, he will go to excess. He must needs act thus, nor can he do otherwise; and surely that is not to be accounted a crime in him. which is the necessary product of his natural condition. The unrestrained gratification of natural instincts is as clearly right in the savage (taking his

^{*} Cf. Schopenhauer, Vierfache Wurzel, 3 Aufl. § 22.

wrong in us, whose world is very dif- hunger and lust the savage can acferent from his. Hence morality, as knowledge no restraint, as he has no interpreted by us, has no application outward objects to counterbalance to the savage. Our refined distinct them. But here another point is to tions in question of morals do not ex- be considered, namely, that this unist for him: his obtuseness of under-restraint tends to grow from day to standing is such that he cannot grasp day. Egoism prompts each individthem. Our definition of good and evil ual savage to assert his mastery over applies to him as little as to beasts, all others. Hence the quarrels and and it were unjust to measure him by competitions of man against man, each such a standard, or to require him to striving to surpass the other. But conform to it. He can recognize no law save that of instinct, so long as his world remains contracted. Whatever his instincts require, that he seeks; what they reject, that he avoids. As his will is attached to trifling objects, they being the only objects he possesses, he must needs esteem as highly things of no value to us, as we esteem things of high importance to us, though of no account to him. Hence matters perfectly indifferent to us will have for him moral importance (if we may so speak); and conversely, what we take to be highly important will be indifferent to him, because his will is not directed toward it. By the aid of these principles we can explain such traits as the following: Certain Bushmen, being asked by a universal rule among savages. and what by bad, could not give any be perfectly harmless.* The Kamtchatdales hold that an act is sinful visit hot springs; to brush snow off the shoes out of doors; to seize a red-hot when you would light your pipe; to bring home the first fox you have taken; to tread in the tracks of a bear, etc.† The Orangoo Negroes hold it sinful to spit on the earth,‡ while the natives of Labrador regard nothing as sinful save only the murder of an innocent man.§

* Burchell, I. 338, 340.

world into account) as it would be | In the gratification of his indolence, since this competition must regard only those activities which occupy the savage, and as these three instincts furnish his chief occupation, it follows that the natural condition of unrestraint will be carried by competition to a truly bestial degree of perfection in indolence, gluttony and lust. Missouri Indians used to practice promiscuous intercourse as a point of honor.* In like manner, in Tahiti and the adjacent islands, there was the association of the Arreoi, who made it a point of honor to practice unchastity in all its degrees.

The Indian never exerts himself ex-

cept so far as strict necessity requires. After the hunt, unbroken repose. The women do all the work, as is the European what they meant by good Indian chief once said to a white man, 'Oh, brother, you will never learn reply: but they held fratricide to what happiness it is to think of nothing and to do nothing: this is, next after sleep, the most delightful thing which is unlucky: for instance, to on earth. That was our condition before we were born, and will be our condition after we die.' Then, after coal otherwise than with the fingers, expressing his contempt for the restless life of the white man, he went on: 'But we live for the present moment. The past is but smoke driven by the wind. As for the future, where is it? As it has not vet come, we shall never see it perhaps. Let us then enjoy the day that is, for to morrow it will be gone far from us!'" † It is plain that among such people, to whom the past has bequeathed no problems to be

, Vol. I. p. 362.

[†] G. W. Steller, Beschreibung von Kamt-Frankfurt und Leipzig, 1774, S.

[†] Bastian, 261.

^{835,} No. 5.

^{*} M. v. Neuwied, Nordamerika, H. 131. † Crevecœur, Vov. dans la haute Pensylva-Nachrichten aus der Brüdergemeinde, nie et dans l'état de New-York. Par. 1801,

FLTICIIISM. 12

solved, no tasks to be performed, and quires that one inquire if all is well who will themselves bequeath none with his neighbor's belly. The South to futurity, there can be no advance. Sea Islanders call thoughts, words in in knowledge or in morals, "The the belly. The stomach of one who boy accompanies his father: if the dies is kept as a relic; and the Kroo latter follows any pursuit—fishing, for Negroes hold that the stomach ascends instance—the son too learns the craft, into heaven after death.* But inasmuch as the Negroes pass the greater part of their time in doing absolute shamelessness of the savage nothing, the education thus obtained is of no importance." * In the South Sea Islands the grandees have the food put in their mouths bit by together like cattle, have no real marbit.† In Tahiti the missionaries, having endeavored to introduce the art of weaving, all the girls who had come. to learn quit work after a few days, saving, "Why should we work? Have a mere possession, not the object of we not as much bread-fruit and co- love, when by reason of age or for coa-nuts as we can eat? You who need ships and fine clothes must work: but we are content with what we have." ‡

all savages as the acme of earthly fe-ligion, oftentimes even forbid to come licity. The inhabitants of Northern near the sanctuary as being unclean, Asia perform wonderful feats of gor- and in death she is esteemed unworthy mandizing. Three Yakuts will de- of being lamented." 1 " In Nucahiva your a reindeer at one meal, including the bride is the property of all the the contents of the intestines, and a male guests for the space of three single Yakut once devoured 28 lbs. days." S Bushmen and California Inof porridge with 3 lbs. of butter.\(\xi\) dians make no account of blood-re-The baptized Kamtchatdales often lationship, and incest is common say, as they recall the past when they were still heathen: "When do we Time ever have jovial days now? was when we used to be spew the whole floor of the hut three or four times a day, but now we can do it but rarely even once a day. Formerly we could wade a all Negro languages the word belly is one of great import." Politeness re-

As regards the passion of lust, the almost surpasses belief. The Bushmen have only one word to signify girl, maiden and wife; they consort riage, and the men exchange their women freely.† "Woman is a chattel, to be bought and sold, having no rights of choice or of refusal. Being any other cause she can no longer minister to lust, she becomes a despised thing, without any rights, often contemned even by her own children, Lust and gluttony are regarded by shut out from the ceremonies of reamong many Indian tribes. | Among the Aleutian Islanders brothers and sisters, children and parents, have sexual commerce with one another, alleging the example of the seal.¶ South American savages, the Puris, Botokuds and others, and most of ankle-deep in spew, now the soles of the New Holland tribes, go entirely our feet even are not wetted." | "In naked, while among the South Sea Islanders, at least the men, if not both sexes, wear no bodily covering. Some Indian tribes use clothing to protect them against the weather, but disregard the claims of modesty.**

^{*} Halleur, das Leben der Neger West-Afrikais; Ein Vortrag. Berlin, 1850, S. 31. Cf. Bosmaun, R. nach Guinea, 1708, S. 148.

[†] Forster, S. 206. † Beechev, L 337.

[&]amp; Cochrane, Travels on Foot through Siberia, 155; J. Sarytschew, Achtjalhrige Reise im nordostlichen Sibirien, auf dem Eismeere u, dem nordostlichen Ocean. Aus d. Russischen übers. Leipz. 1805, I. S. 129.

Steller, Kamtschatka, S. 286.

[¶] Bastian, S. 35.

^{* 16.,} S. 207. † Lichtenstein, R. in Afrika, II. 376; Camp-

bell, 13. ‡ C/. Wuttke, I. 177. § Langsdorff, Reise, I. 132.

Eschwege, Journ. v. Brasilien, I. 121; Mackenzie, Travels through N. America, 108.

[¶] Langsdorff, 11. 5843. ★ Mackenzie, 5471. *Cf.* Wuttke, I. 182.

my is wide-spread in certain tribes.* short, nothing can be more foreign to most unbridled licentiousness; and Equality."* The Tunstinct with sensuality.† goos have wanton dances which conclude with the stripping off of all clothing and indulgence in unlimited debauchery: ‡ and immoral dances prevail throughout all Northern Asia. The Greenlanders and Eskimos are notorious, but the life led by the Kamtchatdales in former times was bestial. All their thoughts and imagtity, and even little children delighted their parents by licentious indulgence. Adultery was universal, and the women required to make return for any service they received, by ministering to the ruling passion; and men and wo-tween parent and child, education is men engaged in unnatural and sodom- out of the question. The American itic commerce. They were acquainted with syphilis, as they themselves child strike its mother and refuse to admit, long before the advent of Eu-obey her. "He will one day be a ropeans.

there can be no family, in our sense rents are very rare. ‡ of the word, that is, with the members Kamtchatdales children never ask united together in love and friendship, their parents for anything, but take it Here the rule of the stronger prevails, without more ado: and they never and the man is everything. "The manifest joy on seeing their parents idea of the State is nowhere ¶ devel-after a protracted separation from oped, and the individual, instead of them. gaining strength from union with between father and son are frequent, others, imagines himself to be safe and not seldom terminate fatally. from danger only when he oppresses! The Arekuna, as in Guiana, bring up all around him. The father makes children and monkeys together. The slaves of his children, and the hus-monkeys are members of the family, band enslaves the wife, in order that eat with the other members, are he himself may be free: and he is free so long as he does not meet some one mightier than he, for then the domestic tyrant falls himself under the control of an inexorable master. neighbor he regards as his foe.

The South Sea Islanders abandon the savage mind and the state of savthemselves at a very early age to the agery than the dogma of Universal "The child has no their songs, dances and shows are in-rights, being simply the chattel of his parents, who can do with him as they please, without being bound to him by any obligations. Rarely do they exhibit any true parental love for their children, beyond the fondness of animals for their young; and when a child is born to them inopportunely, or when they take a dislike to it, it is put to death; and the fearful crimes infanticide, fœticide, abortion, of inations were concerned with unchas-tabandonment and sale, and even slaughter and eating of children, are so common as to explode all the sentimental idvllic tirades that have ever used to boast of it. Strangers were been sung about the innocent life of man in the state of nature."†

When such are the relations be-Indians are pleased when they see the brave warrior," say they. Among Where there in no moral family life them obedience and respect for pa-Among the Among the Tungoos duels suckled by the women, and have great affection for their human

^{*} Eschwege, I. 132; Franklin's First Voyage, 7273. † Mackenzie, 108.

[‡] Ermann, Reise um die Erde II. 36.

[§] Cochrane, 298.

Steller, Kamtschatka, 287, 350, 357.

[¶] Among savages.

^{*} Bastian, S. 67, 68.

[†] Wuttke, Gesch. der Heidenthums, I. S.

^{185.} ‡ M. v. Neuwied, Nordamerika, H. 129; Franklin First Vov. 73; Mackenzie, 106; Franklin, First Voy. 73; Eschwege, I. 121; Spix u. Martius, Reise, I. S. 380.

[§] Steller, Kamtschatka, S. 353. Cf. Wuttke, I. 187, ff.

^{||} Georgi, Beschr. einer Reise durch das Russische Reich im J. 1772, S. 242. Cf. M.

v. Neuwied, R. in Brasilien, I. 141, 146.

a child and a monkey at the breast, the two nurselings quarreling.*

As the parents care little for the children, so in turn the children care When the little for the parents. American Indians go out on their hunting expeditions they often leave behind in a state of utter destitution the aged and the infirm who are unable to make the tramp: † and in most of the tribes it is customary for relatives to dispatch the old and the feeble without remonstrance from the victims. ‡ The Bechuanas have less regard for the aged than for cattle, and abandon them to their fate without compunction. Their neighbors, the Corannas, expose the old people to wild beasts, they being, as they say, of no account, and only serving to use up the provisions. Among the Bushmen the daughter often turns her old mother out of the hut, and leaves her to be devoured by wild beasts. Sons put their fathers to death with impunity. The Kamtchatdales often eject the sick from their house and cast them to the dogs; ** and the Eskimo often bury alive old sickly widows, and not unfrequently suffer old men to perish of hunger.

3. Conclusion.

We have now set forth the intellectual and moral condition of the savage so far as was needful for our present purpose. Our criticism, aided by experimental investigation, unfolds before our eyes a picture very different from what certain enthusiasts would paint, who hold the present

Oftentimes a woman is to be seen with condition of civilized man to be a corruption, a degeneration from the primitive innocence and purity of man in his natural state. An indolent savage, who has neither objects nor aims nor ambitions to occupy his mind, can never be moral.

> Of course the picture we have painted does not represent with equal fidelity all savages, for there are degrees of higher and lower even in savagery. We are not called upon here to ascertain the specific differences of these various degrees; it is sufficient if we have an idea of the average condition of the savage intellectually and morally considered.

The savage's world is narrow and contracted, presenting but few objects, and hence he has but few conceptions. But the fewer his conceptions the less does he distinguish between them; i.e., the less he thinks, the less is his faculty of thought exercised, and the greater is his stupiditv. Then, his will can be directed only upon the objects given him through his understanding. since external objects there are none to engage it, of course all its energies must be expended upon internal objects, of which he is conscious through his organism. Hence he is as free from restraint as a beast in the gratification of his instincts. Such is the savage, and such he must be; for intellect, world and will are inseparable; one never stands without the others; they stand ever together, or they exist not at all. It is needless to inquire which has precedence, for they all three make up the essence of man. His intellect extends as far as his world, and his will extends only so far as his intellect, or his world. Conversely, too, his world extends only so far as his intellect and his will.

^{*} R. Schomburgk in the "Ausland," No.

[†] Mackenzie, 431: Franklin, First Voyage, 192; Second, 91.

[†] Robertson, History of America, L 466; Mackenzie, ib.

[§] Campbell, Trav. in S. Africa, 49, 245. 16., Second Journey, 258. ¶ 16. 272.

^{**} Steller, S. 271.

^{††} Cranz, Gronland, 201; Beechev, H. 394. Bastian makes a similar statement as to Negroes, S. 320.

CHAPTER III.

THE RELATION BETWEEN THE SAVAGE of objects, the less accurate will be MIND AND ITS OBJECT.

In the preceding chapters we have been laying the foundation for a correct understanding of fetichism, and have ascertained the range of the savage intellect. As fetichism is really a mode of intellectual apprehension, we had first to study that particular phase of the understanding wherein a sensible object obtains significance as a fetich. It remains for us now in the present chapter to show what is the necessary relation of the savage mind to its object; for it is this relation which gives rise to the fetichistic apprehension of objects, and which accounts for it.

1. The Value of Objects.

has a clearer and more exact appre- the best and the most precious. clear understanding and an accurate plates. On the other hand, as there thus vary according to the number of The peasant values his field of rve, objects of which I take cognizance, not so the rare varieties of flowers But since all things stand to each growing in the neighborhood; he other in a causal relation, it follows knows nothing about these. that a perfectly exact estimate of any mind were stored with as many plant-single object can only be had when objects as is that of the botanist; if the entire series is known. For the he were acquainted with their differgreater the number of the objects apent classes and their mutual relations, prehended, the better do we under he would value these rare flowers; as stand the interrelations of them all, it is, he plucks them up as weeds and

and so the causal value of each. On the contrary, the smaller the number our estimate of each.

The mind, then, whose object-world is very contracted must of necessity form a very different estimate of things from that formed by a mind which has many objects, nor will its estimate be as exact as that of the latter. From all this it follows that the estimate formed of things by children as well as by savages must be very different from our estimate, as their world is very contracted and the number of their objects very limited.

The untutored intellect which, as having but few objects, is defective in the power of distinction, cannot estimate the true value of things. It is liable either to overestimate objects or to undervalue them. It can estimate only the objects which it has. As things are for us what we appre- As it knows only these and is ignorant hend them to be, so their value for of all others, it cannot compare the us will be in accordance with our ap-known with the unknown, and the prehension of them. Now the mind known must of necessity be esteemed hension of objects in proportion as peasant who has never left his native it distinguishes between them more soil, regards his home as the most declearly. Therefore the sharper the sirable place on earth, though the soil distinctions we can make with regard be half bog. Be the objects which to the minutest details of an object, the untutored mind contemplates the more exactly can we determine never so lowly, and worthy only of its value. An object is distinctly ap- contempt as viewed by a mind which prehended, only when we can dis- has a wider range, still it will set an criminate between it and other ob- exorbitant value on them inasmuch as jects. If therefore I would form a they are the only objects it contemestimate of a thing, I must also clear- are many objects which do not occur ly understand all other objects re- to the undeveloped mind (v.g. objects lated to it; and so I cannot rightly of a purely intellectual value) these it estimate anything without an ac- will not estimate aright, or in other quaintance with a number of other words, not according to their true My estimate of things will worth. It will undervalue them. FETICIIISM.

casts them away. His undeveloped child does not value the objects which understanding does not apprehend are of importance to youth.

objects which a man possesses, the cation, and has enough to occupy his more excessive will be his overestimind in the contemplation of familiar mate. He will discern valuable treas- household things. For these alone he ures in trifles which, to a mind of has eyes, ears, attention. After a man greater range, will appear as very is grown up and no longer admires. nothings. If a man is worth a million for instance, his watch, merely glancing of dollars, a few pence will be a trifle in his eyes; but if a man has only a few pence, then one penny will have a considerable value for him. If then we would determine what are the objects which a man will regard as valuable, we must take account of how many objects he has. What then are the objects that a child will prize? Those which he has. What are these? Let us consider those which he has not. He has none of those which lie within the domain of science or of art. He has none of those things which the adult values, steady occupation, its products, its remuneration, etc. He values only those things which he knows and has, and these are the merest trifles, his playthings.

Children must of necessity prize these trifles, for they have no knowledge of the more important objects known and prized by adults. It is worth while to observe how the understanding is enlarged in proportion to the number of objects to which it addresses itself. As it becomes acquainted with new and more important objects, its standard of values changes; yet so long as these new objects are unknown, it esteems as most important those objects which it already has. In youth we have a very different estimate of things from that which we have in old age, for youth does not value those things which are most

distinctions between things, and as he child values only the objects with which cannot distinguish between them, they he is acquainted. But these must be are all alike to him. For him leaves of but little importance, for it is only are leaves, and he knows no such dis- by slow degrees that the mind comes tinctions as heart-shaped, lancet- to value objects of real importance, shaped leaves, etc. Objects with Inasmuch as every object is a novelty which he is unacquainted he under- to the child, it is a necessity for him values in proportion to his ignorance to take the same interest in trilling objects which we take in more important The fewer and less important the ones. The child is receiving an eduat the dial to ascertain the time of the day, he forgets the time in the past when things now the most familiar were to him new and strange, and wonders that the child should want to look at the watch again and again, and to listen to its ticking. Yet nothing is more natural or more inevitable for as yet everything is a novelty to the child. We say that children play with things. If by play we mean simply pastime, amusement, we do not correctly describe the occupation of the child, who is as seriously employed with his toys as an adult might be in the management of state affairs. The child's play is work, study, acquisition of knowledge, and occupation of the mind suited to the measure of his faculties.

We have been somewhat prolix in describing the relation of the infantile intelligence to its objects, for the reason that it throws light upon the matter in hand, viz., the relations between the mind of the savage and its objects. The savage's mind is in the same embryonic state as that of the infant. It has but a limited range of objects, and therefore will value these, however inconsiderable they may be, as we value objects of greater moment. Let us take an inventory of the possessions of a naked savage, a Bushman, for instance. He has none of the products of industry or art; he weaves prized by age. In like manner the not, neither does he spin; he neither plants nor gathers in a harvest; he stole a couple of iron nails from has not even a knife beyond some Cook's vessel, and her brother consharp-edged stone he chances to find. nived at the theft." * "A negro who He knows nothing of such objects. wears European clothing at once Previous to his coming in contact with ranks with Europeans, though he be Europeans he has no idea of such a as black as coal. There are gradatrifling thing even as a brass button, tions of rank, however: a fellow that or a nail. What then does he possess? wears only one article of European A few articles that he has chanced to costume, the vest, for instance, or the find, that he has picked up off the hat, ranks as a mulatto. To hold ground, or found growing on trees, or rank as an out and out European, he taken from wild beasts. His posses- must wear the full costume, his head sions consist of stones, shells, a being crowned with the club, fruits, peltries, a dead carcass, skulls and bones, teeth, horns, gaudy feathers, fishbones—such is the sum be possessed by the god of poesy, and total of his property. "The Bushmen my interpreter would inform me that have scarcely any possessions. If he was singing my praise and great they steal a few head of cattle, they renown. This was extremely gratifydevour as much as they can, and leave ing and of course flattered my vanity the remainder on the ground."* The in no small degree. negroes of West Africa are more fa- however, my attention was on one ocvored. "Simpler even than his house casion specially directed to the noble is the furniture—a bed made of leaves strains wherein the Greots, or bards, and rushes, a block of wood for a committed my fame to posterity; and pillow, a few pots and bowls, a gun it was suggested that the least I might and a long knife, with a few large and do was to give them a kronthaler: so small calabashes, the large ones used I had the curiosity to request of my as wardrobes (his clothing being a interpreter a more minute analysis of few yards of cloth to wrap around the the pean. The Greots were lauding body), and as receptacles for ball, lead, in transcendental metaphors, my hat, the furniture to be seen in a negro's last days that hat cost me double the hut."†

neither has nor knows of any possessions. He must therefore overestimate these objects. Accordingly a the Blood Royal. Princes alone are fishbone will serve him for an ornament.‡ "They trick themselves out with feathers, shells and the like, which they consider things of beauty." If now they meet with some strange object, a nail, for instance, or a glass bead, or a bit of tinsel ornament, it excites their wonder, and they long to possess it. "The sister of a South Sea Island king whose subjects thought themselves highly civilized,

"Oftentimes as I stood in the presence of ebon Majesty, the king would Unfortunately, powder, etc.; the small ones serving which just then was not according to as flagons. And that is about all the latest mode de Paris; and in its price I had paid for it new. The Beyond this inventory the savage Lord of Shemba-Shemba I suppose sung the praises of my shoes, as shoes in that land are the prerogative of there permitted to wear shoes, to travel in mat hammocks, or to carry umbrellas." ‡ The inhabitants of the Pelew Islands used to append to their ears all the valuables they cribbed from Europeans, scraps of leather,

> This fact, which has a psychological basis in the intellect of the savage, must be taken into account in the study of fetichism; and this for two reasons, viz.: First, it will, in connec-

bits of paper, etc.

^{*} Lichtenstein, Reise im Südl. Afrika, 1803-Berlin, 1811, II. 321, 83.

[†] Halleur, 23, 18.

[‡] Bastian, 317. § Halleur, 19.

^{*} Forster, Bemerkungen, S. 338.

[†] Halleur, 19.

[‡] Bastian, S. Salv. 56.

FETICHISM.

tion with other facts, enable us to see | we must consider this point more how an object comes to be regarded as a fetich. Then it will guard us against the error of thinking that every object that the savage prizes is for him a essentially homogeneous, but yet on fetich. It is true, any object may become a fetich; still, every object is not necessarily a fetich. We might here recall what Azara says about the savages of the Rio de la Plata: "When the ecclesiastics saw certain figures engraved or pictured on the pipes, bows, clubs and pottery of the Indians, they at once concluded these were idols, and burnt them up. Indians still employ the same figures, but only to please the fancy, for they are without religion."*

2. The Anthropopathic Apprehension of Objects.

It is plain that in the view of the savage, objects will have a very different value from what they have for But furthermore, owing to the contracted range of the savage's mind and his consequent deficiency of mental power, or, which is the same thing, his defective faculty of distinction, an object, whether living or inanimate, will have for him a very different meaning from what it has for us.

The savage differs but little from the mere animal, nor does he himself draw the same line of distinction between the two which we draw. Inasmuch as his consciousness, which extends only as far as the objects which enter it, is extremely contracted, he is on this ground also less distinguished than we from the unconscious nature He has but few which surrounds him. objects, and so distinguishes but few: and thus his power of ascertaining substantial differences between things lies all unemployed, uninstructed and fee-Consequently, he does not see things with the same distinctness as we do, and hence it is clear that in his view nature must appear more But homogeneous than it does to us.

closely.

We too regard all nature as one and homogeneous, and view all beings as characteristic grounds very different from those of the savage. After having traveled in many devious paths, and so far even exaggerated the distinction between Man and Nature, as almost to dissolve the tie which binds them together, and thus established the characteristic differences between the two, we came to recognize the truth that in the last analysis man is not essentially distinct from nature, and we regard nature as homogeneous in all its parts, though for reasons very different from those of the savage. The difference lies in this, that we consider nature in its several parts: that we arrive at the knowledge of its homogeneity through the consideration of its distinctions and differences, and that nature lies before us as a very complex object, which has been investigated in many of its parts. The savage knows nothing of these distinctions and definitions : to him nature is all unknown; vet he too regards it as homogeneous, but on these grounds:

He is unacquainted with the peculiar nature of those things he comes in contact with, having never investigated them; he knows nothing of their inner specific properties and constitu-He recognizes a distinction tion. only between their external phenomena, as regards their form, color, smell or taste. Then, he has never made his own being a subject of contemplation either from a psychological or from a physiological point of view. He is therefore ignorant of the distinction between himself and other beings. Accordingly his apprehensions of outward objects will picture them not according to their real nature, which he has never investigated, but in quite different shapes. It is impossible for him to attribute to objects properties he never yet has apprehended. He has no conception of the true, specific nature of things, and

^{*} Azara, Voyage dans l'Amerique Meridionelle. Paris, 1809, T. H. p. 3.

never doubts but that his perception which he might set them right. tain a doubt whether or no his appre- mind. hension corresponds with the reality, the thought must first have arisen in must regard all objects, as far as conhis mind that perhaps the object cerns their inner nature, as being enmight be apprehended differently: but this presupposes a mind furnished with a great variety of conceptions, and that has investigated much, so as to be possessed of a number of different actual and possible notions. cisely because the cultured mind possesses such an abundance of varied notions, any one of which may appear to represent some new object which attracts its attention, it will not accept its first impression as absolutely correct and final, but will be skeptical for a time, while it sifts and weighs, in order to choose among many conceptions that which exactly fits the matter in hand. Now the savage has no such store of conceptions. He possesses but few himself, nor has he the slightest suspicion of any others. the savage of Tierra del Fuego has no notion of Europe, Asia, Africa, etc., and just as he has not the remotest idea of what a magnifying glass is, so he is utterly unable to conceive of any other mode of apprehension but his inanimate things, as living, thinking own, and therefore he can entertain and willing, even as he himself lives no doubt as to the correctness of his and thinks and wills: that is to say, notions. Having no suspicion of the he takes an anthropopathic view of naexistence of any notions beyond those ture. We shall in the sequel find he himself possesses, he necessarily abundant proofs of this position, for thinks his are the only ones possible. it is a fact that has been time and The adversaries of Columbus saw, ac- again recognized, admitted and procording to the ideas they entertained, claimed. that his undertaking was chimeri- assign its psychological grounds. cal: they regarded their own notions is the utter ignorance of the sayage as the only correct and conceivable that directly leads him to view nature ones, and were free from all doubt, in this light, for we must bear in mind

consequently his apprehension of Who could have imagined the possithem is defective. Whatever object bility of traveling by land without the he perceives he invests with those employment of draught animals, beproperties of which he has already a fore the invention of the steam-engine. notion, and then for him the two things It is impossible for the savage to are inseparable and identical. This doubt the correctness of his notions, process is inevitable, and the savage as there are no others by means of is entirely correct, for he has no sus- ing no suspicion of any others he is picion of having transferred to the obliged to see all things in the light object the incongruous impressions of his own understanding alone, and of his own mind. And indeed why to transfer to everything he meets the should be doubt? In order to enter-impressions already existing in his

> Hence it is plain that the savage dowed with those inner properties only, of which he has formed to himself some notion. Now what are these? Not the inner properties of the objects themselves, for of these he knows nothing. The only properties of this kind with which he is acquainted are those of his own mind. But how far does his knowledge of his own mind extend? He knows nothing of its psychological laws, nothing of its essential character, so to speak: he is acquainted only with accidental properties: his transient impressions and emotions, his momentary humors, and his aimless pursuits. These notions he necessarily transfers to exterior things, as their inner properties; for on the one hand he has no idea of the real inner nature of the objects, and on the other he is acquainted with no inner properties whatever, save those of his own mind. He must necessarily consider all nature, and not alone animals but even We have attempted only to

26 LL FICHISM.

that for a man in the earliest stage of to one man, to me alone, to this pardevelopment, viz., a savage, every-ticular savage creature, with all its thing, however trifling, is as novel, as petty, personal propensities, is the beunknown and as wonderful as a rattle ling of the universe. The distinction is for the infant. As the man gradu- is broad. ally advances toward civilization, this Substance of man is the being of the mode of viewing nature is given up, vet far more slowly and more grudg- dental properties (which differ for difingly than we might be disposed to ex-ferent individuals) are the being of pect. For it is with this habit as with the Universe. every system of ideas. If those who went before have adopted it, and their undeveloped man, the savage, necessiwhole life long cherished it, and held tates a mode of contemplating nature it for true, it becomes implanted in their children into whom it was inculcated during their early years, and in erties he possesses himself: he cannot them becomes a truth, resting on the authority of their ancestors. The belief grows stronger day by day, and ties he discerns in himself, for he has finally becomes indisputable dogma no critical power of discriminating, which is not to be set aside even though it be in conflict with facts, wills, is kindly or unfriendly disposed; Thus the anthropopathic view of objects endures even where men's acquaintance with nature is no longer in the lowest grade.

If we transfer ourselves into the narrow field within which the savage observes nature we shall find this result so inevitable, that any other result will appear to be impossible. Though I have said that we ourselves, no less than the savage, must regard man and nature as homogeneous, still we must admit this difference between our or harm mankind." † point of view and his: by investigatman as a product of nature. We say. man is as the rest of the universe, man. But the savage knows neither the nature of other things, nor yet his own; as regards the latter, he is acquainted merely with his varying impressions and desires. Therefore he can only say : Nature is like Man, i.e., has the same petty, individual and altogether subjective impressions and desires. When Schopenhauer says, The Universe is Will, for man in the last analysis is Will, and at the same time merely a part of the Universe, he asserts that the common being of all men is also the being of the Universe. On the contrary, the savage says: The individual being which pertains

Schopenhauer says: The Universe. The savage says: Acci-

Thus the intellectual status of the very different from ours. He ascribes to all things essentially the same propavoid considering all things as being endowed with the same inner proper-For him, therefore, every object lives, and thus everything inspires him with fear and awe, "so that he scarce ventures to touch any object: even the very plant which affords him nourishment he plucks from the ground with propitiatory rites." * In America and in Northern Asia all things are supposed to be possessed of souls—works of nature and of human art alike. These souls they consider as something dwelling in the object and inseparable from it, which can benefit The more these objects resemble man in their ing nature we have come to recognize general appearance the more readily will they be regarded as actually hu-First, therefore, would come the anthropopathic apprehension of animals, then of all the phenomena of motion—the sea, rivers, clouds, the wind, lightning, fire (which some savages regard as an animal,‡ as did the ancient Egyptians, according to Herodotus); \$ plants would follow next, and then finally rocks and mountains. This subject we will consider in detail farther on. "Natural objects pass for mighty spirits. Thus, for instance,

^{*} A. Bastian, Beiträge zur vergleichenden Psychol. S. 10.

[†] Meiners, Hennepin, Lafiteau, Steller, etc. † Wuttke, I. 59.

[§] Herod. 111. 16.

among the Australians the rock-crys-| The object has therefore a greater South America to be possessed of bepoetry.

those notions and passions which he his stay among the savages, had in has himself, the savage attributes to his possession a compass and a large his fetich precisely his own wild, kettle in the form of a lion. Whenunbridled desires in all their natural ever he made the needle vibrate, the unconstraint, and magnified to the chief with whom he lodged assured highest degree; his hunger and all that were present that the white thirst, his love and hate, his anger men are spirits and capable of doing and his rage. Still the object con-extraordinary things. The savages tinues to be, in the mind of the had such fear of the kettle that they savage, that which it is in its external never would touch it, without having form. It is not as if the savage in first wrapped it up in beaver pelts. his anthropopathic apprehension represented to himself a self-existent the kettle had to be made fast to superior Power, a self-existent soul, a tree. Hennepin offered the kettle which merely assumed for a time the to several chiefs as a present; but external shape of the fetich. No: none of them would accept the gift, proper form and with its native propinew owner." † erties is invested with anthropopathic characteristics. This is very differ- hension of things is to be observed in ent from a symbolic conception, children. The little girl who in per-Here the object as it presents itself fect seriousness regards her doll as a in all its external manifestations, is playmate, who strips and clothes it, identical with the anthropopathic confeeds and chastises it, puts it to bed ception. When a thing comes to be and hushes it to sleep, calls it by a regarded as in some way the symbol personal name, etc., never imagines of another and a different thing, then that all her care is expended on a the mind has made a very considerable step in advance.

tal is esteemed sacred; the savage value for the savage than for us, both attributes special good qualities to as a commodity and as something stones of bright colors. The blood-anthropopathically regarded as posstone is supposed by the Indians of sessing life. "One of the followers of the envoy Isbrand exhibited before neficent qualities. Even the products a crowd of Ostiaks who wanted to of human skill, such as watches, telesell fish to the embassy, a Nürnberg scopes and the like, are inhabited by watch, fashioned in the shape of a spirits. An intelligent Bechuana said, bear. The Ostiaks viewed the artion first seeing the sea and a ship, cle with great interest. But their joy 'This surely is no created thing, it has and astonishment were increased sprung into existence of itself, and when the watch began to go, and the was not made by man." ** This an- bear began to strike the hours, and thropopathic view of nature is the his head and eyes to be in motion. very essence of poetry: and hence it. The Ostiaks bestowed on the watch is that the view which the savage the same honor they paid to their takes of nature appears to us so poet- principal Saitan, and even gave it ical, though he himself is so accus- precedence over all their gods. They tomed to this mode of apprehension wanted to purchase it. If we had that he is utterly unconscious of the such a Saitan, said they, we would clothe him with ermine and black As man can ascribe to objects only sable."* "Father Hennepin, during the stone remains a stone, the river for it was thought that an evil spirit The water itself, in its dwelt within it, who would slay the

The same anthropopathic appre-

^{*} Isbrand, Voyage de Moscou a la Chine,

in Vol. VIII. of Voyages au Nord, p. 38. † Hennepin, in the Voyages au Nord, IX. 332, 333. C. Constant, La Religion, L. p. 254

lifeless thing, she does not make any so inter-related causally. It is a law such reflections as these: This is all of the mind therefore that it shall remerely an illusion that I include on gard its objects as standing to one purpose; a play that I engage in, but another in the relation of cause and with the distinct understanding that effect. it is only play. She has no thought. Now it is clear that the mind can that the doll is a liteless thing; for discern this relation only between her it is possessed of a human life, those objects of which it has conwhich is bestowed upon it by the sciousness. But the more restricted child herself. The boy's hobby-horse its range, the fewer will be its obis for him no mere symbol. This jects. A mind which possesses but anthropopathic view of lifeless ob- few objects will be liable, owing to jects is to be seen among people this very paucity of objects, to aseverywhere. Especially do we ob-sume immediate causal relations serve it in the way people vent their where they do not exist; in the abrage in blows and abuse bestowed on sence of the true cause, it will take inanimate things that have occa- for cause some object within its own sioned them some hurt. In the heat range. This is the real ground of of passion, reflection and judgment all error, and any erroneous appreare silenced, and then momentarily hension whatsoever might serve as an the mental range is contracted as it example of what we here assert. In is in the savage permanently. An the course of this chapter we shall Indian who in his cups had received fall in with many examples, but we a burn expressed his indignation cite only the following in this place: against the fire in the most abusive. The true cause of the so-called rain language, and then mingens cum ex- of blood in Southwestern Europe tinxit.*

3. The Causal Connection of Objects.

We now proceed to study the operations of the mind in its profoundest believed, until it was discovered that depths. The act of consciousness the color of the rain was owing to the implies the perception of the principresence in it of particles of sand ple of causality. We perceive objects from the Sahara.* "When the keel of by referring to outward phenomena, Portuguese ships first furrowed the as to a cause, certain modifications waters of the Atlantic, the savages one another by the same causal by a power to them incomprehensimind invariably perceives this rela-cloud-birds come down on earth." †

was long unknown. People accordingly connected this unknown and unexplained phenomenon with a conception which they already had, and said, "It rains blood," and so produced in our nerves of sense, and viewed with consternation the whitewe connect objects themselves with winged ships driven along their coasts In the latter process the ble." They had never seen a ship. mind arranges the objects in a certain. What could this apparition be which orderly series, so that one shall ap- was borne along as it were on wings? pear as accounting for another, or One only conception had they which explaining it. Thus one object would could aid them in accounting for the be cause, and another, effect. The motion, and they said, "They are tion in all the objects which come un- It is just because the mind can assign der its cognizance; and even in the only those objects as causes, which most trivial conversation the several it already possesses, that you hear conceptions are explanatory, illustra- men uttering so much nonsense when tive, confirmatory of one another, and they discourse about things quite

^{*} Adair, Hist. Amer. Indians. Lond. 1775, p. 117.

^{*} M. Perty, Die Natur, p. 283. 1 † Bastian, S. Salvador, S. 269.

ing within it. In short, this is the example will be readily understood, origin of all that science which would while at the same time it will serve account for phenomena by an à priori to illustrate the preceding remarks. theory, as when the motions of the An iron anchor must be regarded by planets were explained on the theories the savage as a very strange and peof Ptolemy or of Tycho Brahe. The culiar object, for he could never common people from their stand-point mold such an instrument, nor does could account for the occurrence of he see the like every day. "A Kaffir erratic blocks only on the theory that broke a piece off the anchor of a they were fragments of giants' clubs stranded vessel, and soon after died. broken in battle, or that they were Ever after the Kaffirs regarded the dropped by giantesses out of their anchor as something divine, and did aprons.† The explanations given by it honor by saluting it as they passed

attribute causality.

will naturally be regarded as strong, ment for the Kaffirs than the anchor powerful, effective, and so gifted with itself. Well, the man died suddenly. peculiar attributes, for only that What caused his death? They could which is possessed of power can pro- find no natural cause: but there was duce. Whatever therefore we regard the anchor, and this man had broken as preëminent in its kind, whatever off a piece of it. Here were facts appears to us as specially notable, which spoke for themselves. So the peculiar or important, we rate as the anchor, the injury done to it, and the cause of other phenomena which we death of the Kaffir were without more regard as its effects, if only the cir- ado ranged in the order of cause and cumstances of time and space permit effect, and the anchor was advanced such a view. causality the mind must get from ob- anchor had been injured and outraged jects within its own range. Now, as and would have its revenge: here we we have already seen, the narrower have a specimen of anthropopathic the mind's range, the higher will be its apprehension of an inanimate thing. estimate of objects. Therefore, the It slew the impious wretch: here we more restricted the field of conscious- have an object that appears to be of ness, the more inconsiderable will some importance viewed as the cause the objects be which pass for causes of something else, viz.: the death of -inconsiderable in our view, though the transgressor. Henceforth that of high moment in that of the savage. anchor is a dread and mighty Thing; has been already observed with re- it in a good humor.

without their sphere, but which they gard to the savage's anthropopathic try to explain by conceptions belong- apprehension of objects, the following Playfair and Venetz lie quite beyond by, with a view to propitiate its the popular apprehension.

Wrath."* An anchor is, in the eyes of So much therefore is clear, that the the savage, something so remarkable undeveloped understanding will of and so strange, and he is so utterly necessity connect in causal relation ignorant of the use it serves, that a number of objects which do not in there was a concourse from all sides reality stand to each other in the re- to see it, and all were filled with adlation of cause and effect, reason and miration. Their interest was as great consequence. The question for such as that of an astronomer when he a mind is, to which of the objects of discovers a new planet. That any its consciousness it shall specially man should have the hardihood to break off a piece of this singular ob-The cause, as being the producer, ject was no less matter of astonish-This perception of in the estimation of the savages. If we now recall to our minds what so they greet it as they pass, to keep

^{*} Grimm, Deutsche Mythologie, L. Aufl. S. 306-7.

^{*} Alberti, die Kaffern, S. 72; Lichtenstein, Reise, I. 412.

We find in this example four fac- empiric grounds. Granted only a contors. First, the consideration of this tracted and undeveloped intelligence, strange object as something altogether, and you have fetichism as the inevitapeculiar, singular and important, sim- ble result. The mental status of the ply because it is strange. Second, the savage finds its natural expression in anthropopathic apprehension of this fetichism; fetichism is its System of object as something that lives, feels the Universe, its philosophy, its religand wills.* Third, the establishment ion; and hence fetichism, as being of the relation of cause and ef- such System, Philosophy and Religion, fect between this object and other finds its explanation when we have things. Fourth, the apprehension of gained anything like correct notions it as something mighty, which is of the savage intellect. therefore to be treated with reverence. We will cite a few more examples to the end it may be friendly; or, in to show how fetichism is made up of other words, as something which, in our four factors. "A negro of some virtue of the inner nature attributed distinction, an acquaintance of Röto it, becomes an object of venera-mer's was about to take refuge in a tion. We are now in a position to Danish fort, with his family and his understand what is meant by a fetich, valuables, to escape from the attack When an object is viewed in the four- of a merciless enemy. On quitting fold manner above set forth, it is then his hut in the morning he stumbled on a fetich, and fetiches are therefore a stone with such violence that he objects in which these four factors suffered considerable pain. This acare united.† The objects here are cident caused him to regard the stone all sensible objects.

strated that these are the necessary through it he succeeded in escaping consequences of the savage's intellection the dangers which had threatual status, viz.: an over-estimate of incend him." * "An American savage considerable objects, an anthropopath- chose the crucifix and a little image ic apprehension of objects, an errone- of the Virgin that had come into his ous perception of causal relations, and possession, for his Manitus. the veneration of objects supposed to never parted with them, after he had be causes. So the fetichistic mode of found, as he believed, that they proapprehending things flows quite nat- tected him sundry times against the

* Bastian, S. Salvador, S. 227.

as a fetich. He at once picked it up, We have now empirically demon- and never more parted with it, as urally and inevitably from natura) and arrows of his enemy."† "As the Yakuts first saw a camel during an outbreak of the small-pox they pronounced that animal to be a hostile deity who had brought the disease among them.‡

> The taboo of the South Sea Islanders is by many writers supposed to resemble the fetich, and even to be identical with it. Still the two things do not appear to be identical, if we accept the account which Gerland gives of the taboo. (Waitz's Anthropologie, Band, 5.) Waitz gives an excellent

1774, p. 387. † Wuttke, Gesch. d. H. I. 72.

[†] The first writer to employ the word fetich was De Brosses in his work "Du culte des dieux Fetiches," which appeared in 1700 anonymously, and without the name of the place of publication. As to the origin of the word he says: "... certain deities, whom Euro-peans call Fetiches, a word formed by our traders in Senegal, out of the Portuguese terra Fetisso, i.e. enchanted, divine, oracular. It is from the Latin root tatum, fanum, fari," Winterbottom, in his "Account of the Native Atricans in the Neighborhood of Sierra Leone," derives the word from the Port. Fativeira, witch, of Faticaria, witchcraft. The Negroes borrowed not only this but also another word, gree-gree, from the Portuguese. According to Bastian (S. Salv. S. 95) the universal name in West-Africa for a fetich is Enquizi. Another name is Mokisso, or Juju (*Hed.* 254, 81); also Wong (Waitz, H. 183); among several Amer. tribes, Manitu.

^{*} L. F. Römer's Nachrichten von der Küste Guinea. Kopenhagen, 1769, S. 63, 64. † Charlevoix, Journal historique d'un Voyage de l'Amérique septentrionale. Paris

he, is an object of religious venera- ceremonies employed in Micronesia tion, wherein the material thing and to lift the taboo less imposing than the spirit within it are regarded as those in use in Polynesia. one, the two being inseparable. As Cheyne describes a very protracted we have already said, the fetich is any festival which he saw observed on the object whatsoever, viewed anthropo- isle of Eap, the chief ceremony conpathically, or regarded as endowed sisting of prayers addressed by the with human characteristics. Taboo, priests to the Sea-god, to induce him on the other hand, according to Ger- to quit a vessel that was taboo, and land, is an object which receives re- return to his native element, ligious veneration because it is the (Cheyne, "A Description of Islands," temporary abode of a spirit or of a etc., 157 seq.) From this narrative we Deity. "We know." says he, "the learn what is the meaning of Taboo. meaning of the taboo, the religious The god enters a thing and thus withban of Polynesia, and the question draws it from common use. arises whether the same custom pre- chieftains being of divine origin, their vails also in Micronesia? It does; person and property are taboo to the but though in the latter islands the commonalty, as is also whatever they belief in taboo is as universal as in are pleased to declare taboo.* This Polynesia, still the taboo has not view of the taboo is very probably there so extensive a range of objects. the correct one: yet we must not sup-(Gulick, Micronesia, in the Nautical pose that in Polynesia and in Micro-Magazine, 1862, 417.)" The taboo at nesia the taboo is not also regarded taches to meat and drink; and the nota- in another light, and apprehended as bles of the Ladrones will not eat eels: a fetich. On the isle of Nukunono the isolated inhabitants of Ponapi, Fakaafo worship used to be paid to the Marshall and the Gilbert Islands, the Tui Tokelau, or Lord of Tokelau; etc., will not eat the flesh of this or and this was a stone wrapped up in that animal; the common people on matting and held so sacred that only those islands must not eat the kava, the king durst view it, and even he and on the island of Kusaie they must only once a year, when it assumed a abstain from the cocoanut, etc.; sev- fresh suit of matting. (Turner, "Nineeral trees also are taboo, i.e. forbidden teen years in Polynesia," 527.) This (Mertens, Recueil des Actes de la stone idol, which was ten feet in Séance, publ. de l'Acad. imp. Scien- height, stood in front of the temple, tifique de St. Petersburg, 29 déc. and was, at the time when Hale saw not eat the blooms of the pandanus. its thick wrappages of matting. (Hale, Also places, temples and persons, v.g. 158: Turner, 527). It was the Tui great princes, are taboo for the com- Tokelau that caused disease, so whomonalty. Whoever would go a fish- ever was attacked would have a new in his Tarawa vocabulary, s. v. Tabu; address to the god, were addressed Pickering, Memoir, s. v. Tabu, etc.), to the stone. Which is here the god, and in the isle of Morileu the word pennant is employed in the same sense. land, S. 147.
† Waitz, Anthrop. V. Abth. 2, S. 195.

definition of the fetich: A fetich, says pennant (Mertens, 134). Nor were the native element. 1829, 177); the rain-conjurers must it, ten feet in circumference, owing to ing must be continent for the space mat wrapped about the god, to propiof twenty-four hours. In conversing tiate his wrath by means of this with women certain words were taboo: rather costly offering.† As this stone and thus we might go on rehearsing was considered so sacred, it was natan interminable list of such prohibi- ural for the people to identify it with tions. The word taboo also is used the deity. Whatever offerings they in Micronesia (Kotzebue, Entdeck- made to the stone, were made to the ungsreise, II. 59; Hale, Ethnographie, god: whatever petitions they had to

the stone or the deity? The better's essed of anthropopathic properties, class of the islanders, those best in that it cannot of itself perform those structed by the priests as to their re- acts which he formerly attributed to it. ligious belief, would perhaps regard or when he recognizes as inhabiting the the stone as only the habitation of the object, a spirit separate from the god, and consider the latter as dis-material thing. Fetichism becomes tinct from the stone. But would the thus elevated by means of the belief more ignorant sort make such a dis- in spirits, and the fetich is advanced tinction? If not, the taboo was for to the higher grade of the taboo. them a fetich.

make. The so-called Religion of ligence, the taboo is better adapt-Nature, i.e., the religion of the savage, ed to them than the fetich. For the has two aspects, which must be same reason, intelligent Negroes resharply defined and kept separate if gard their fetich as taboo. Halleur we would have clear conceptions on gives the following as a specimen of the subject. Under one aspect sensi- Negro intelligence: "I wished to ble objects are worshiped; under the make a Negro understand the folly of other, worship is paid to spirits. It offering to the fetich-a tree, for inis not asserted that either of these stance-food, drink, lemons, and branches of Natural Religion arose palm-oil, as he himself must know prior to the other: they are both per-that the tree made no use of them. feetly natural phenomena, springing in- 'Oh,' said the Negro, 'it is not the evitably out of an undeveloped state tree that is the fetich. The fetich is of intellect. The worship of sensible a spirit, and invisible, who lives in objects is founded on the relation the tree. To be sure, he does not subsisting betwen the mind and such consume the material food, but he objects: the worship of spirits is enjoys its spiritual portion, and refounded on the relation between the mind and the souls of the departed. Here is the fetichist become a taboo-These two systems run parallel to one ist, supposing that the description of another, and here and there unite tabooism heretofore given is correct. their currents to form a single stream. This subject I propose to consider in another place. At present we have to do only with the worship of sensible objects, i.e., with fetichism, and we purposely omit the consideration of the other branch of Natural Religion. We do not assert that the only religion of the Negro, for instance, is fetich-worship, though we study the Negro here only in so far as he is a fetichist. Just as in the higher grades of intelligence one individual will surpass another in mental development, so too will one savage excel another, and attain a higher grade of religious development, however contemptible his very high est grade may appear to be in our estimation. Thus the savage has already made one step in advance, as soon as he perceives that the object of his worship is not a being pos-

As the South Sea Islanders are raised Here we have an observation to above the very lowest stage of intel-

CHAPTER IV.

FETICHISM AS A RELIGION.

1. The Belief in Fetiches.

Accidental coincidence determines whether or no an object shall be regarded as a fetich, as we have seen in the foregoing examples. The savage, however, cannot entertain a doubt as to the power of his fetich, for he has had evidence of this, and with his own eves has seen how such and such an object brought about such and such an event: how the anchor slew the man, how the camel brought the smallpox. It is only after he has found

^{*} Halleur, S. 39.

number of instances that he is undehis intellect, to suspect that the true cause may lie outside of his fetich. Even if his faith is shaken, it is impaired only so far as regards one most superficial grounds. Thus, a plague broke out in Molembo soon after the death of a Portuguese: the two things were arranged in the order of cause and effect, and as long as the memory of the plague lasted the people of Molembo were very careful that no European should die within the limits of their country.* When cases occur, wherein the savage, according to his way of judging, directly sees the action of his fetich, his belief is confirmed. "In a clearing in the woods," writes Bastian, "I observed on the side of the road a fetich-house, and wished to examine it more closely, but my black carriers could not be induced to carry me to the spot. As I alighted, to go on foot, they almost resorted to violence to withhold me from executing my purpose, and I read in their eyes, when I came back to them, that they regarded me as certain to die very soon. . . . Weary, I reached Quimolenzo toward night, when suddenly my sight failed me, and I felt myself sinking powerless to the ground. A violent fever raged in all my veins, and this continued through the entire night. following day it was the same, and I was so weak I could not rise from the bed. My people exchanged knowing looks, as much as to say: The spell of the fetich is working; and they were quite sure they would have to bury me before night." † "In front of the American's house (in Shemba-Shemba, West Africa) there was a crowd of people assembled, in the midst of whom a fetich-priest was running up and down with loud cries, jerking

his fetich powerless in a considerable hither and thither a wooden puppet decked with tatters of every color, But it is a very difficult thing and beating it with a switch on the for him, owing to the obtuseness of face and shoulders. I learned that a knife had been stolen from one of the Negroes, and he had applied for its recovery to this priest, who was the owner of a fetich in high repute as a detecspecial fetich, while it remains firm as tive of thieves. The unfortunate god to all others. He bases his judgment appeared to me to have paid dearly for his reputation, seeing that he got a merciless whipping to begin with, to teach him the necessity of attending seriously to his business. The priest having wrought himself up to a high state of prophetic clairvovance, announced to the spectators, in a tone of perfect assurance, that the next morning they would find the knife alongside the fetich, which he posted in front of the factory. In the morning there lay the knife, for the merchant, disliking a continuance of these ceremonies for an entire week, chose rather to confirm the infallibility of the fetich, than to expose his property to the risk of being plundered, if the people continued to flock around his establishment." *

> The savage has never a doubt as to the efficiency of his fetich, and his faith is all the stronger because ever since he was a child he has seen every one entertaining the same belief, and so his mental fiber is, so to speak, saturated with it. Every one knows the force of early impressions; how the great mass of mankind never emancipate themselves from their influence. and how it is only after many a painful inward conflict that a man escapes from their dominion. But this absolute faith of the savage in the power of his fetich, disposes him to view it with dread; this dread in turn serves to exaggerate the apparent efficiency of the fetich and so to confirm more and more the man's belief in its "When a Negro has anything power. stolen from him he entreats some great fetich to discover the thief. The pomp of ceremony attending the consultation of the fetich oftentimes

^{*} Bastian, S. Salv. S. 104.

[†] Ibid. S. 50, 53.

^{*} Bastian, S. 61.

25 FETICHISM.

that he surrenders the property." * power to punish the guilty: the inno-The thief being also convinced that cent he will not hurt. As the fetich the fetich has power to hurt him, gives must come into bodily contact with back what he has stolen, or confesses the subject of the ordeal, the latter the theft. "The rich frequently employ a Kassa potion to make their domestics confess their thefts." † In Great Bassam they merely lay a fetichstick upon the body of the accused. If he is guilty, he is sure to confess; his tears will extort the admission. Beneath the threshold of the king of Dahomey's palace is set a charm which causes his wives internal pains whenever they are guilty of misconduct, and so they often find themselves constrained to make a voluntary confession of their guilt.\ To this category of beliefs belongs the so-called Judgment by the Lizard, which is in vogue among the inhabitants of Senegal. A smith beats upon a lizard with his hammer; the fear of incurring the evil fortune which is supposed to follow from this performance is expected to bring the thief to a confession, and it usually does. | Many similar delusions are recorded in books of travel. But especially noteworthy is the Obeah of the West India Islands, particularly Jamaica, a baneful superstition for the eradication of which the most stringent enactments of law have proved insufficient. Its influence upon the minds of the Negroes is so great that at one period it notably increased mortality among them; at another, stirred them up to mutiny, by impressing them with a belief that they were invulnerable.

Thus fetiches serve for ordeals, which among the Negroes usually consist of poisonous potions, or of emetics

* Provart's Geschichte von Loango, Kakongo u. s. w. Aus dem Franzosischen. Leipzig, 1777, L 167. † Bastian, S. Salv. 61.

§ Forbes, Dahomey and the Dahomans. Paris, 1851, p. 55. + Boillat, Esquisses sénégaliques, Paris,

ses. p. 260 ; Waitz, H. 190.

so fills the thief with consternation and drastic agents.* The fetich has is required to drink fetich-water, t or water in which the bark of the wild manioc, or some other substance has been steeped. According to Halleur. " fetich-water is prepared from the bark of the tree odum. It is supposed that, as this tree is always a fetich, when a person accused of crime drinks the water in which its bark has been steeped, the fetich enters into him and thus discovers either his guilt or his innocence. If the accused party yomits, it is a sign, that the fetich has discovered his innocence, and is quitting his body: but if the fetich-water is retained, then the fetich has discovered his guilt, and will not guit him until he has been punished." ‡ "The accused may, under certain conditions, send a slave to take the questionable potion in his stead. Many, however, of their own accord apply to have the fetich-water administered to them, to be purified by the ordeal." \$ Very often the accused has the magical potion given to him without his knowledge, so that the savage lives in constant fear lest any one should employ this redoubtable form of fetich against him.\ The power of this spell may be estimated from the fact that the tradingpost of Bimbia, between the Calabar and the Cameroons, and opposite to Fernando Po, which was at one time a missionary station, has become almost entirely depopulated, owing to the employment of the fetich-water during many years by the notables of the place on every slight occasion. Nor is the ordeal by fire or that by water unknown in Africa. In Mada-

[!] Hecquard, Reise an die Kuste und in das Innere von Westafrika. Leipzig, 1854, S.

^{1853.} p. 102. Bryan Edwards, Hist. des Colon. Anglai-

^{*} Winterbottom, p. 172; Köler, Einige Notizen über Bonny. Göttingen, 1848, S. 127 seqq. : Cavazzi, Histor. Beschr. der Königrei-che Congo, etc., 1694, 94, 108 seqq. : Proyart, S. 141.

[†] Bastian, San Salvador, S. 84, 306. S. 203.

[‡] Halleur, S. 34.

[§] Bastian, S. Šalvador, S. 85. Ibid. S. 300.

dergo the ordeal of red-hot iron.* "the Great Stick, the Great Tree,"
Among the Malay Lapongs the glow- The center of religious and political ing iron is applied to the tongue of life among the Wanikas is the Muansa, the accused,† while among the An- in whose honor the tribe celebrate swim across a stream inhabited by approached only by the chief.

caymans. If a fetich which first owed its distinction to accident, displays its power again on another occasion, it may easily transcend the rank of being one man's fetich and be adopted by an entire family, or even by a larger aggregation. For in America, Africa, and Siberia,‡ each individual has his separate fetich; each family, and even each tribe, their respective fetiches. The fetich of a tribe is honored with more pious and constant devotion than the inferior fetiches, as having for a longer period shown his effi-Thus there are Grand Fetiches, which are regarded with profound awe, and which, in the shape of mountains, trees, rocks, etc., protect the chiefs or the territory of the The fate of mankind is by the American Indian thought to de-The pend upon the belt of wampum.

*Leguével de Lacombe, Voy. à Madagas-

car (1823-30). Paris, 1840, I. 233. † Waitz, Anthrop. V. Abth. I. S. 149. II. 523.

‡ Charlevoix, p. 344, 346. Lettres édif. Nouv. Ed. VI. 174. De Bry, Descriptio auriferi Regni Guineæ in Part VI. of India Orientalis, VI. 21. Oldendorp, Geschichte der Mission der evangelischen Brüder auf den caraibischen Inseln St. Thomas, St. Croix, und St. Jean, herausgegeben von J. J. Bassonet. Barby, 1777, l. 320 ff. Des Marchais, Voyage en Guinée, Isles voisines et à Cayenne en 1725-27 par le P. Labat. Amsterdam, 1731, II. 131, 152. Georgi, Beschreibung, S. 384. § J. B. Müller, Mœurs et Usages des Os-

tiakes, in the Recneil des Voyages au Nord, Amst. 1731, Tom. viii, 413, 414: "Les Os-tiakes ont beaucoup plus de vénération pour leurs idoles publiques, qu'ils ne dépouillent pas et n'abandonnent pas comme les autres; mais ils les estiment au contraire, et les revèrent comme etant d'ancienne date et d'une autorité reçue et avérée.

|| De Bry, vi. 21. Des Marchais, I. 297: "Les rois et les pais en ont d'autres qu'ils appellent les grands Fétiches, qui conservent le prince ou le païs: telle est quelquefois une grande montagne, un gros rocher, un grand arbree," etc.

gascar the accused person has to un- chief of the Muemba is Chiti Muculo, taymours the ordeal requires him to roaring festivals, and which is to be holy of holies is a wooden instrument which emits a peculiar buzzing sound.* The Grand Fetiches have their mysterious influence intensified, by being, as far as possible, withheld from the gaze of the profane. Grand Fetich," says Bastian, speaking of one in Congo, "dwells in the midst of the bush, where no man sees him, or can see him. When he dies. the fetich-priests carefully collect his bones, in order to reanimate them; and supply them with nourishment, so that the Fetich may anew gain flesh and blood." †

> Nor do the Negroes regard the Christian religion as anything but the worship of a Grand Fetich.) Thus San -Salvador (called by the natives Congo dia Gunga—the tones of the bells-on account of the great number of its churches and convents) was widely known and feared throughout South Africa, as the home of a powerful fetich.‡ The negro is so rooted in this mode of apprehending things, that he is ever returning to it, or rather, he never quite gives it up. "It has ever been the study of the missionaries to check the abominable practices of fetichism, and with the aid of the civil power they have succeeded in abolishing the worst features of this Moloch worship, though not in substituting any other religion in its place, and the Negroes have advanced only so far toward conversion as to use salt." \$ The only reason however that induced them to go even thus far was, that they thought salt would cause their children to grow fat. But they soon refused salt again, first because the ceremony cost too dearly, and secondly, because, as they

§ Ibid. S. 96.

^{*} Waitz, Anthrop. III. 190; II. 422, 424.

[†] Bastian, S. Salv. S. 82. † Bastian, S. Salv. S. 173

FETICHISM. 30

said, the elephant grows fat though on his way he was met by the Mafooka, he uses no salt. "In Congo, where the oldest man in the place, accomthe ruins of churches have served to panied by the entire population. "On perpetuate the memory of the Christian religion, the natives account for their ignorance of Christianity by saying that the Desu of the Portuguese is too mighty a fetich for common folk. and so was reserved for the king alone, while his subjects had more comfort in worshiping feticles of the time of Chitome, Guardian of the Sacred Fire. A Christian priest is for them only a fetich priest practicing peculiar fetich ceremonies. " When the slaves, torn from family and friends, were put on shipboard in chains, to drag out a miserable existence over sea beneath a foreign sky, and in foreign lands, the pious bishop of Loanda sat on the stone seat at the end of the wharf and assured them, with his apostolical benediction, of a future replete with joys unutterable, with which the brief period of their probation here below durst not be compared. The poor Negroes understood nothing of the ceremony but this, that the white man's fetich now deprived them of their last hope of ever again seeing their native place. Their names however were registered in the account presented to the Pope by the society de propaganda fide, to be by him duly authenticated and submitted to St. Peter."†

As all the savage's thoughts and the whole conduct of his life are governed by fetichism, he regards his fetiches as absolutely necessary to his existence. Any rude shock given to this system of ideas and usage, causes emotions in the mind of the savage, as painful as those aroused in men of other beliefs by the act of sacrilege, and the hatred of the blacks for the whites is largely owing to the disregard of this fact on the part of the latter, and to the daily and hourly insults which they thus offer to the black man's religion. wished to take a bath in a river near a certain Negro village. As he was

* Bast. S. 96. † Ibid. S. 98.

inquiring what he wanted, I found that he desired me not to go any nearer to the water; and he promised that my name should live for all time in the songs of that valley, if I would vield to his most humble entreaty. scarce thought it worth while to pay any attention to the absurd request, which I judged to have been made simply with a view to deprive me of a pleasure I had long coveted, so I told the gabbing old man to betake him to a warmer region than his own country, and ordered my carriers to go on. This however it was impossible for them to do, for screaming children in swarms grasped them by the legs, and threw themselves upon the ground before them, to block up the way. heart-rending tones of wailing the Mafooka, in the mean while, struck up a song of woe, the effect of which was increased to the most painful degree by the chorus, in which all joined. The expression of blank despair was visible on every countenance. people! Small wonder it was so: for the next day, on further inquiry, I learned that had I looked upon the stream, its sources would have been dried up forever, and their only supply of water cut off! Rather than bring upon my soul the guilt of so great a catastrophe, I preferred to return unrefreshed.... As we came near another village, my carriers halted, and the interpreter said my coming must be announced beforehand. I therefore dispatched him to make the announcement. On his return he informed me that the usages of that country did not permit any one to pass through the village in a hanging-mat. To avoid delay, I submitted to the regulation: but when he insisted on my going through the same formalities at the next village I ordered the bearers to move on. hesitated, and only resumed the journey after repeated commands. Scarce had we reached the first hut, when with wild cries the entire vopulation, armed with spears, sticks and may be employed as fetiches to meet muskets, surrounded my mat-palanquin various contingencies. Not to speak and began to belabor the carriers, of the daily discovery of fetich power In the mean time I had distributed in new objects, there are sundry among my coolies the guns I had with things which have long been known me for presents, and, alighting at the as fetich for certain defined purposes, moment of the attack, we soon had and which, as such, are received by an unobstructed passage. I passed all. Now a fetich may be either through the villages thereafter without friendly or hostile toward me. First, difficulty, and so I saved much time he shows himself friendly toward me which else had been wasted in the ob- when he confers a benefit, or when he servance of ancient customs. ever I observed that this disregard for da Negroes always carry their little ceremony gave very deep offense, I idols (Manipancha) about with them; distributed a few gifts among the sen-commune with them in a state of high iors to appease them."*

of customs which to us appear ridicu- them news about home and family, lous; and so little doubt has the Ne- and have firm faith in the revelations gro as to the truth of his fetichistic which they suppose they receive from religion, that many of them ascribe their fetiches.* Some American Inthe contempt of Europeans for the dians carry similar figures, carefully fetiches to the natural stupidity of the wrapped up, in their medicine-bags. white man.† Every Negro, even the On solemn occasions they are taken sternest autocrats and despots, bow out and treated with great reverence. in reverence before the fetich. "Every In short, no action of any moment is year the Duke and Duchess of Sundi commenced, whether the chase, or were required to wage a symbolic con- fishing, or war, without first consulttest with the chief fetich priest, by the ing the fetiches as to its ultimate sucsacred tree in Gimbo Amburi; they cess and as to the best mode of comwere always worsted, and obliged to mencing it.‡ As in the ordeal, the acknowledge the fetich's power." ‡ fetich here appears as a Being that Even if the Negroes do now and then knows hidden things: in the ordeal, admit the absurdity of their faith and things past, here things to come. worship, still they cling to them be- This is the original of the Oracles. cause tradition vouches for them and On the Gold Coast the most renowned they themselves know of nothing Oracle is at Mankassim. better.§

2. The Range of Fetich Influence.

The efficiency of the fetich is, for the savage, beyond all question, and there is no limit assignable for its influence. I do not mean to say that each individual fetich possesses this unlimited power, but that there is nothing which is not subject to one fetich or another. The question for the savage is what kind of objects

* Bastian, 60, 108.

Wher- preserves me from evil. The Cabinnervous excitement; counsel with Thus the savage is the abject slave them as to the future; obtain from fetiches confer other benefits, besides revealing the past and the future. They bring "luck;" and for this purpose they are carried on fishing and hunting expeditions and when the tribe goes to war. There are fetiches for river fish and for sea fish; for favoring winds; for a cheap market; for health; for clear sight,

[†] Livingstone, Missionary Travs. (Germ. Trans.). Leipzig, 1858, 11. 83.

[‡] Bastian, 204.

[§] Bosmann, III. 281.

^{*} Bastian, S. 81; Tams, Die portug. Besitzungen in S. W. Afrika. Hamb. 1845, S.

^{- †} Schoolcraft, Information, etc., V. 169. † Cf. Meiners, Allg. Krit. Gesch. d. R. Bd. 1, S. 176.

[§] Cruickshank, Eighteen years on Gold Coast (1834), p. 227.

Bastian, S. Salv. S. So; Des Marchais, H. 130 seqq., 152 seqq.; Bosmann, 179 ff;

intended for those on a journey is a will court danger, suffer arrows to be ball of red cloth, within which the shot at him, and allow his arms and tetich priest encloses some powerful legs to be hewn off.* medicine, generally the extract of some plant (milongo). Further, the used in the choice of the material Negro suspends all about his person cords with most complicated knots, savage will very naturally suffer his roots, bullets, and in a word any ob- choice to be determined by the value iect that strikes his fancy. The of the object he selects. The natives Bushman who acted as my guide in of Siberia prefer metallic fetiches to Shemba-Shemba had an image three all others, these being, as they supfeet long dangling from his belt, pose, by reason of their great age, which he never would think of remov- possessed of a longer experience and ing. In fact, the heavier the load a higher wisdom than are possessed with which you burden a Negro, the by other materials less durable by greater the number of fetiches he in turn will add, to make things even." * The ordinary fetich is generally a very but exhibit the other side of his benefunpretentious object—often a couple icent disposition. There are feticles of leaves from a tree.† "The poorer against thunder; to extract thorns Negroes of the interior are often that have penetrated into the feet; quite content if they only have a cord against wild beasts; to save one from to tie around the calf of the leg, missing his path, etc.‡ Frequently this cord is of matebbe, employed against disease, the fetich which, like plumes in the hair, gives becomes medicinal, and thus also the invulnerability. The Kroo Negroes fetich-priest is at the same time necalmost universally wear this cord essarily a medicine-man, or physician. around the shank, but more loosely "When on Fernando Po contagious than the Caraibs. The Catholic mis-diseases break out among the children sionaries were for a while much elated the skin of a snake is fastened to a with the thought that they had rooted pole in the middle of the market-place, out this particular form of fetichism, and thither mothers bring their inby substituting for the common cord fants, to touch this fetich. In the vilone twisted out of palm-leaves blessed lage of Issapoo the renewal of this on Palm Sunday."‡ Among the snake-skin in the Reossa (market-Kaffirs the warriors are rendered invulnerable by means of a black cross festival, and it is first touched by on their foreheads and black stripes the infants born during the preceding on the cheeks, both painted by the year." | The savage, being ignorant Invanga, or fetich-priest. This con- of the real cause of disease, attributes trivance makes the warrior invisible, it directly to the action of a hostile while it deprives the enemy of his fetich, and always judges death to sight and fills him with terror.\$ Negro's faith in his fetich which renders him invulnerable and disables

"The usual form of a fetich specially his enemy's arm is so strong, that he

But yet some discretion is to be which constitutes the fetich, and the nature.†

In warding off evil the fetich does By being place) is the occasion of an annual

Proyart, I. 167; Oldendorp, I. 324; Georgi, S. 384; Voy. au Nord. VIII. 410-414; Charlevoix, p. 340, 348; Lettres édifiantes, Nouv. Ed. VI. 174 seqq.

^{*} Bastian, S. So.

[†] Halleur, 19. Cf. Waitz, H. S. 186.

⁴ Bastian, S. 79.

[§] Dohne, Zulu-Kafir Dictionary. Cape T. 1857, p. 303.

Provart, p. 192; Bowdich, p. 364 seqq.; Köler, S. 127.

[†] Voyages au Nord. VIII. 414. "Ils ont beaucoup de confiance en elles, surtout quand elles sont d'airain, cela leur donnaut, à ce qu'ils imaginent, une sorte d'immortalité, parce qu'elles ont resisté à la corruption du temps immémorial, et qu'elles ont acquis, pendant tant d'années, beaucoup de lumières et d'expérience.

[†] Bastian, So. § Ibid. S1, 138.

[|] Bastian, 318, 319.

be brought about by witchcraft.* by the witchcraft is turned against Against such a power naught can the conjurer himself. It frequently avail, save counter charms, to be ob- happens that he who is the bewitched tained by the priest or magician from actually regards himself as held by a more particularly, "his relatives apply water. The punishment is death, in to the fetich-priest. After he has case the suspected murderer cannot got their offering of rum and cowries prove his innocence, or if, when (for without these gifts the holy man proved guilty, he cannot purchase is quite inaccessible) he inquires of life for a considerable sum." † his fetich, who it is that has bewitched "When the draught of fetich water the sick man; for they believe that proves fatal to the party accused, the disease is caused only by witchcraft, priests search for the seat of the en-The priest next fashions out of clay an chantment in the dead body, and eximage of the conjurer named by the fetich and carries it into the forest." This same course is followed by the and now unrecognizable, as corpora medicine-men among the American Indians. They stab the image with tend to extract a splinter or a stone.‡ knives, or shoot arrows into it, where-

their more potent feticles. It is spell, and soon dies of profound meltrue, the Mandigoes employ many ancholy.* "But," continues Halleur, wholesome medicinal agents—herbs, "if the spell is obstinate, and refuses potions, infusions—but vet they gen- to give way, then the rum-offering erally make only external applica- and the ceremonies of disenchantment tions of them.† As a lock of hair, must be repeated, and the patient or a few drops of blood, may be so treated with remedies prescribed by enchanted as to throw a spell upon the fetich, and prepared by the priest. the person from whom they were This treatment is followed up till the taken, the Kaffirs, in order to sick man either recovers, or succumbs avoid the suspicion of such pract to the power of the over-strong tices, are always very careful to spell. The corpse is borne about the restore such articles-vermin in entire village previous to its intercluded—to the owner, so that he may ment in its former home. Oftentimes secretly bury them out of sight, or the bearers, when passing the house destroy them. ‡ "In case of sick- of one they dislike, or on meeting ness they call in a male or female such a one on the street, halt sud-conjurer; and of these there is one denly, pretending that the corpse specially qualified to deal with each refuses to go any further. The priest special class of diseases. The con-asks of the dead man the reason of jurer undertakes to blow counter to this unwillingness to proceed, and the evil wind sent from a distance by gets for answer that the occupant of some enemy: if, however, he is unthe house or the passenger in question successful in this, nor yet can prevail is the conjurer that bewitched him. with the aid of music, then he gives up The man is at once arrested and held his patient to the wicked dæmon." \$ to prove his innocence, after the "When a Negro falls sick," says funeral is over. This proof is made Halleur, who describes the scene by the administration of the fetichhibit to the people portions of the viscera forcibly torn from their place delicti, just as the medicine-men pre-Among the Bambarras, if one of

the highest caste of the Kubaris fall

^{*} Ibid. 91; Halleur, S. 32; Waitz, H. 188,

^{503.} † Park, Voyage dans l'interieur de l'Afrique. Paris, an VIII. II. 27 seqq.: Cord.-Laing, Voyage dans le Timani, le Kouranko et le

[†] Steedman, Wandering and Adventures in the Interior of Africa. London, 1835, I. 266.

[§] Bastian, S7.

^{*} De la Potherie, Hist. de l'Amér. septentr. Paris, 1722, II. 30; Keating, Narr. of an Exped. to the Source of St. Peter's Riv.

London, 1825, II. 159. † Halleur, S. 32 ff.; Vignon in N. Ann. des Voy. 1856, IV. 299; Waitz, II. 189.

[‡] Bastian, 85.

disorder is, that someone has, whether of their having been ever in contact purposely or unawares, touched one with the Christian religion," The offender, who of his wives. must be discovered, and who is discovered by the great oracle of the Buri, is either banished or put to death.* It may, however, appear to the priest that the disease was due to the patient's own transgression, in having forsworn, or omitted the cus-

tomary offerings.† The fetich has power to heal bodily diseases: a draught of fetich-water can discover in the heart the proofs whether of guilt or of innocence; and it is therefore but natural that it should have also power to banish moral ills. During the festival of the First Fruits the men of the Creek tribe of American Indians used to take, after a prolonged fast, the warmedicine, being strong emetics and drastic agents,‡ while the women bathed and washed themselves. offenses, with the exception of murder, were thus blotted out. It is beyond question that the idea of purification from sin attached to these ceremonies, but especially to the bath and the drinking of the "black draught" as it was called, an infusion of dried cassine-leaves. The taking of this draught was accompanied with peculiar rites; and it was intended also to "give courage and cement friendship." The Cherokees used a similar potion, "to wash their sins away," as they said. | "Though the superficial observer might here suspect a reminiscence of Christian doctrine, still if we look at the matter more nearly it will scarcely appear probable that so important and mystic a rite should have had such an origin, especially as we seek in vain

sick, the presumptive cause of his among these tribes for any evidence

The savage attributes to fetich influence not alone disease and death. but every phenomenon he is unable to account for, as, for instance, storms and the changes of weather. He is thus furnished with an explanation for everything; and this explanation is entirely satisfactory to him. It is plain that this fact of the savage having ever ready at hand such unquestioned "ultimate reasons" to account for everything must check the development of his mind, or, in other words, must retard his progress toward civilization. For he knows \hat{d} priori the cause of phenomena, and the means by which they are produced: hence it never occurs to him to study their natural causes and conditions: consequently he does not recognize the natural relations between things, and fails to discover that the supposed cause is no cause at all. His mind accordingly makes no advance, but is ever under the tyranny of hallucination. And every à priori principle has the like tendency to check the mind's development; for here it is all one whether it is the Negro that says: this is the work of the fetich; or whether it is the Mohammedan that says: this is Allah's work. A formula explains everything for them both, and by its very explanation leaves everything unexplained.

Fetiches also ward off evil spirits. When the women in Shemba-Shemba have occasion to quit their fields for a time, they strew them with fragments of pottery, for else the malign spirits would trample down the crop.† The Negroes of Whida post fetich images, five or six inches in height, at either end of their fields, at the doors of their houses, in their apartments, court-vards and cattle-stalls, being fully convinced that else evilminded spirits or men would do them

Raffenel, Voy. dans l'Afrique occid. (1843-4). Paris, 1846, L 318. † Bosmann, H. 184.

t Schoolcraft, Information resp. the History, Condition and Prospects of the Indian Tribes. Phila, 1851, V. 685.

[§] Adair, Hist. Amer. Indians. Lond. 1775. p. 105, 120; Schooler, V. 266 seq.

Memoirs of Timberlake. Lond. 1765. p.

^{*} Waitz, Anthr. III. 209. Similar rites among the Kaffirs, IL 414.

[†] Pastian, S. 62

injury.* The same custom is fol-touching them, lest a curse should lowed by the Polynesians of New come upon him."* The following Zealand, Hawaii, Nukahiya and other will show how dangerous a thing it is Fernando Po. Here also the natives employ mussel shells as fetiches. When the devil would come to do them harm, his feet are lacerated by the angular points of the shells. the feticles with what dread thieves must regard them! "Over the doorway of the Negro hut are suspended roots and cast-off rags, and often broken egg-shells, as guardian fetiches. Others employ a block of wood with the likeness of a human face cut in it, and this they plant within the doorway of the hut, or in their fields; yet most of them are contented with a rather smoothlydressed pole, on which they set a snail's shell, as a most potent fetich." "In a village near S. Salvador I saw wooden fetiches with lofty plumes, set up as guardians in front of the houses; in front of the main entrance to another village I saw an empty pot supported on a forked stick." "They have no locks to their doors, nor do they need them, for but rarely is there found a thief so foolhardy as to pass the fetich posted near the threshold." ¶ "The Negro avoids

islands.† Burying-places, too, are promerely to touch a fetich. Captain tected by potsherds and little images.‡ Rytschkow, having entered a hut in a A low, thin hedge encircles Negro certain Wotiak village, observed lying villages, at a distance of about 100 on a board that was fastened to the paces from the huts, and this serves wall something which he took to be to keep aloof evil spirits.\(\sigma\) A line of dried grass. He approached to extwisted bast forms a cordon of de-amine it, but scarcely had he taken it fense round about a Boobie village in in hand when the owner of the hut and his wife, with loud cries of distress, ran to where he stood and begged him piteously not to touch their Modor, or household god. They explained to him how the most grievous misfortune would befall them if even one of the family, to say nothing of a stranger, were to touch the This Modor consisted of Modor. some sprigs of fir, which a certain aged Wotiak had alone the right to touch and to distribute among the several families.† But the guardian power of fetiches goes farther still: to them indeed the appeal is made, Videant ne respublica detrimentum capiat. They are the Protectors of the country ‡ and of its laws. "To give due sanction to a law, it is placed under the special protection of a fetich, whose duty it then is to punish violators of it, as also the one who, knowing of a violation, does not lodge a complaint against the offender.' Furthermore, "when a priest administers an oath, he gives to both parties a draught of the bitter water, and this, laden as it is with the fetich's malediction, will slay the one who The Orang-Benuas proves false."§ in Malacca have similar usages, and indeed they prevail throughout the entire Malay race, being practiced especially when they form alliances. They drink some liquid mixed with blood, in which a dagger or the points

^{*} Des Marchais, H. p. 153. Ce sont pour l'ordinaire des petits marmousets de terre rouge ou noire de cinq ou six pouces de hauteur; ils les mettent à la tête et à la queue de leurs champs, aux portes de leurs maisons, dans leurs chambres, dans leurs cours, dans leurs parcs à cochons, dans leurs pouliers; . . . ce sont pour eux des gardiens, des sauve-gardes à qui ils se croyent redevables du bien qu'ils ont, et d'être à couvert des malheurs qu'ils craignent. Cf. also Römer, Guinea, S. 38. † Gerland, ap. Waitz, Anthr. V. 2, 225. † Bastian, S. Salvador, S. 107, 124.

[§] Halleur, S. 23. || Bastian, S. 316, 348. || *Cf.* Waitz, H. 422, 502.

^{*} Waitz, 79, 186, 316, 78, 348. The same is related of the Loando Negroes by Proyart, I. 168, 169.

[†] Rytschkow, Tagebuch über seine Reise durch verschiedene Provinzen d. Russ. Reiches in. den Jahren, 1769-71, S. 166, 167.

[†] Des Marchais, 1. 297. Sastian, 293,90; Waitz, H. 157; Meiners, B. I. 176.

36 FETICITISM.

will kill the perjurer.* The Burats mightier still; and an offended fetich pay special worship to a lotty rock on may be appeased by gifts.* The the shore of Lake Baikal. They who priest undertakes to make the offertake an oath must ascend this rock, ing acceptable to the fetich, or to and on its summit perform the usual render him harmless. According to rites. It is the firm belief of the na- Cavazzi, the Ganga Nzi gave release tives that whosoever protanes by per- from a sworn obligation, by crasing jury the sacred mount can never come it, as it were, from the tongue, with down again, and that the mountain the fruit of the palm-tree. Often, slavs him.†

the Malays, alliances are consecrated and confirmed by being placed under great also is the fear which he inspires. the protection of a fetich. "At the Now, just as my fetich can do injury conclusion of the meal, each Macota to other men, so may their fetiches incomes and kneels before the Yaga, jure me. The consequence is that I who puts into the mouth of each a must be in a state of constant anxiety, piece of human flesh reserved from and ever on my guard, for how can I the banquet, so that by partaking in say but that some one is possessed of common of the viand they may be all a fetich hostile to me, which he may bound together by an indissoluble employ against me? "The savage feticeros have ascertained the portents ter may perchance be the owner of a betokened by the entrails, the heart formidable fetich. and liver of the victim sacrificed at clined to run away; or, in case he the forming of a new village, together thinks himself strong enough, he will with the flesh of a hen, a she-goat and try to make away with the newa fish are baked all together in a comer." In this point of view the pot, and the entire community is re-following occurrence is characteristic. quired to eat of the mess, under pen- One of Bastian's suite was attacked alty of dving within the year.‡

maintains the stability of oaths and his refusing to come of his own acof alliances. The fidelity of the say- cord, they compelled him to come to age depends upon his fear of the fe-me. As the attack took place within tich: and were he to lose this fear, he his jurisdiction. I held him accountwould be free from every obligation. When therefore he would renounce these obligations, he must deprive the fetich of all power to do him injury, and break its ban if that can be done; or in case this is impossible, he must only disregard the obligations, and then depend upon gifts and sacrifice to appease the wrath of the offended So soon as I set pencil to paper he deity. And either one or other of these two courses the savage in reality adopts. The spell of a mighty

of arrows have been dipped; these fetich may be broken by that of one too, a fetich may be deprived of the Among the Africans, too, as among power to hurt, by being imprisoned.

The power of the fetich is great; In Great Bassam, after the anxiously scans a stranger, as the lat-He will be inand robbed. "I sent a force to the The fetich, by punishing perjurers. Elder of the nearest village; and on able, and required him either to discover the robbers or himself to make reparation for the outrage. He protested his ignorance of the affair and his inability to comply with my demand. As I could not delay, I took out my note-book, to make a memorandum of the name of the place. fell into a violent convulsive tremor, and prostrate at my feet, entreated me not to undo him with my fetich-

^{*} Newbold, Account of the British Settlements in the Straits of Malacca. Lond. 1839,

[†] Isbrand, Vov. au N. Tom, VIII.; Pallas, Mongol. Völker, L 218.

[‡] Bastian, S. 154.

^{*}Bosmann, H. 54; Monrad, Gemälde v. d. Küste von Guinea (1805-9). Weimar, 1824,

[†] Waitz, Anthr. II. 185. † Bastian, S. 104.

form whatever I should require."*

which have gained for themselves a certain degree of impunity through the terror inspired by their fetiches.†

"The ointment magra sambo, invented by Tumba Demba H., daughter of Donghi, and which was prepared from the body of an infant braved in a mortar, made her warriors invulnerable, and so wrought on the fears of her enemies as to make them powerless."‡

"Grand Fetich," which domineers benefits, the defense against so many over the fate and fortunes of others, ills, it will be the duty of the savage will prize this more than all his other without delay to choose a fetich for property. A woman held a fetich of his guardian. Accordingly the life of this kind, owned by her, dearer than the new-born babe is immediately all her children, and refused the offer placed under such tutelage, and the of five slaves, which was made to her fetich thus chosen as guardian of the

anywhere, and may be carried any- ward except on condition that he rewhere by an enemy; so that a man is ceives service in return. He renever secure from danger. Negroes would take vengeance of any dience; he exacts a vow,‡ and imone, they get a feticero to bewitch a poses a command, which his protégé piece of meat or other food; and this is expected to perform with all fidelity. they set in some place likely to be So long as he is faithfully served, visited by their adversary, who will the fetich preserves his ward from thus infallibly come by his death. | danger and misfortune; while, on Accordingly the Negro, ever in dread the other hand, disobedience brings of witchcraft, at every turn pronoun- down his wrath, and is surely punishces a counteracting charm. "The ed: "In sundry parts of Africa the host must always first taste of a dish babe is tattooed on the abdomen before it is passed to his guests, so as immediately after its birth, as a sign to 'extract the fetich,' and this cus- of its consecration to some fetich." \$ tom is universal throughout Africa." \" "Within a few days after it is born There are also other fetiches to meet the child is brought to the Ganga this danger. "To guard against (fetich priest), who imposes on it one fetich-water, the more wealthy provide or more vows; and the mother takes themselves with cups made of rhinoc- care to accustom her child, from its eros horn, which pass here, as also in earliest years, to the performance poison. In Bimbia the natives pro-struction as to their obligation as tect themselves against poison-water will make it easier in after life to by burying in some remote valley of

book, for that he was ready to per-the interior a twig with which they mystically connect the duration of Accordingly there are many tribes their lives, hoping thus to have placed the latter beyond the power of any fetichman."* Nor are fetiches themselves secure against one another, and so quite naturally you will see a fetich with a number of other fetiches attached to him, for protection.

3. The Religiosity of Fetich Worshipers.

The fetich being possessed of such The fortunate possessor of such a powers, the bestower of so many infant watches over him through life. The hostile fetich may be concealed But the fetich will not care for his If the quires of his charge submission, obe-India, for sure reagents against of those yows, and gives it such in-

^{*} Ib. 225.

^{† 16. 129.}

¹ Ib. 234.

[§] Cruikshank, 241 segg.

Bosmann, Guinea, S. 179.

T Bastian, 135.

^{*} Ibid. 85, 306.

[†] Oldendorp, I. 324 ff.

[†] For the Amer. Indians. v. Charlevoix, 349; for the Negr., Moore, Travels into the Inland Parts of Africa, 91; for the Siberians, Georgi's Reise, 599 seqq.

[§] Bastian, 77.

gin to be visited by the ideal dreams whole species represented in the to-of youth, retire into the woods, and tem was exempt from pursuit. Its tich." .

youth's "life-dream" is of high im- those of the same totem, just as the portance for his successful transi- Negroes of Aquapim regard two famtion from boyhood to manhood, ilies whose fetiches bear one name During this dream he receives a spe- as related, and so forbidden to intercial guardian spirit, his "medicine," marry.† which he ever after carries about with. The vows taken in honor of the him, in the shape of some animal's fetich are of course very simple, and skin. The youth of 14 or 15 years have reference merely to external retires into solitude and there abstains acts. As specimens of different vows from all food for a time, so that he taken in Loango, Dapper gives the may dream the better. His dream following, in addition to a series of discloses to him his future destiny minute directions as to costume: ‡ and his fortunes through life; and Not to eat such or such flesh, birds, the celestial admonitions which are fishes; such or such herbs, fruits, etc.: thus conveyed to him direct his course or if one ate of them, to do so all down to the day of his death.† Many alone and afterward to bury the curious names owe their origin to bones. Others bound themselves these dreams: "Hole in the Sky" never to pass over water, even were the was the name of an Indian whose same in small quantity, or had fallen guardian spirit appeared to him in in the shape of rain, or had come an opening in the heavens.‡ It is from any other source. Others again essential that this guardian spirit be were not to cross a river in a boat seen; and the fasting and dreaming with their shoes on, though they might must be continued until some animal wade or cross on the back of an makes its appearance. After the animal. Some were required to wear dreamer awakes, he tracks an animal the hair of the head unshorn, others of the same species, kills it, and might cut off that as well as the beard, carefully preserves the skin, or at while others still were allowed to cut least that part which was specially ob- off only the one or the other. Some served in the dream, and this he were not permitted to eat fruits, while lose it would earn for him the ig-got, and to refuse a share to any one, nominious title of "Man without medicine," and bring upon him untold mis-

discharge them. In some tribes, how- and tribes of Indians have also their ever, this mystic union with the Mokis-guardian fetich in the shape of some so is delayed until the critical period animal, as a bear, a buffalo, a hawk, of youth, that of puberty, when, in an otter, etc., and the Algonquins Africa, the boy-colonies, who then be-called this fetich the Totem.* The when the Indian lad climbs his name was adopted as that of the clan, solitary tree. Important occurrences and when an individual was quesin one's life are also occasions for tioned as to his own name, he would acknowledging the power of the fe-generally, with a sort of family pride, give that of the totem. Among the American Indians a was not to to be contracted between

always carries about with him. To others were required to eat all they

[†] See examples of such dreams in Kohl, Kitchi-Gami, oder Erzahlungen vom oberen See. Bremen, 1859.

[†] Schoolcraft, H. 166.

[§] Catlin, Letters and Notes on the N. A. Indians, 4th Ed. Lond. 1844; Waitz, Anthr. 1818, 124, 223.

fortunes in later years.§ Families III. 118; Charlevoix, p. 346; Hist. Buccan-eers of America. Lond. 1741, L 116; Lettres édifiantes, VI. 174. * Waitz, Anthr. III. 110.

[†] Bas. Miss. Magazine, 1852, IV. 327. † C. Dupuy, Journ. of a Resid. in Ashantee. Lond. 1824, p. 239; Bosmann, H. 66; Proyart, 195; Bowdich, 362, 524; Tuckey, Narr. of Exped. to explore Riv. Zaire in 1816. Lond.

no matter how much they had.* The principles governing his conduct in Yagas (a tribe of warlike African savages) imposed upon themselves, according to Cavazzi,† strenuous practices of abstinence, similar to those found among American Indians, with a view to render themselves the worthy champions of the sacred Quixilles; and they thought that they entered the strife in earnest only after the first captive had been put to death as an atonement for the sins of the tribe. The sanctity of the royal palace was so rigidly maintained among them, that when once a baptized infant was by its mother brought within the enclosure, the chief ordered the palace to be torn down, burnt, and leveled with the ground, for such a profanation necessitated the erection of a new one. flesh of swine, elephants and snakes was forbidden to the Yagas, and they would no more touch it than would the Australian touch the flesh of his kobong. Unfavorable seasons were ascribed to the indignation of the gods on account of the people's sins. Thus these savages, who sucked the brains out of the heads of their living foes, and who, by public licentiousness, cannibalism and infanticide, violated every article of the moral code, even they had an ideal which they called Virtue.‡ When on the Gold Coast the members of a family separate from one another, and they can no longer worship in common the family fetich, then the priest destroys the latter and prepares from it a draught, to be taken by them: and so the fetich enters their bodies. same time certain prohibitions as to food are enjoined, the observance of which is a religious duty.\$

Thus each savage has his special guardian fetich and his own peculiar vows; thus, too, each has a religious belief peculiar to himself, and the

sundry contingencies are the reverse of those held by his neighbors. Consequently he must regard his neighbor's conduct as smacking of heresy, and his neighbor's person as a thing unclean. "The diversity of Mokissos made it necessary in the great caravanserai in the market-place of Loango that each person should bring his own cup from which to drink the palm-wine, so as not to be exposed to the danger of drinking unawares out of a heterodox cup." *

"In what manner soever the Mokisso has been selected, the whole after life of his worshiper is bound up in him. This is the source of all true contentment for the savage, and here he finds the solution of all those anxious questions which arise in his mind no less than in that of other men, who would be but ill content, however, with the very simple solution accepted by the Negro. The vow he has undertaken is for him the sum total of religion. So long as things go pleasantly for him, he is happy and contented under the guardianship of his Mokisso; he feels strong in the assurance of divine approval; ascribes to the divine complacency, his days of sunshine; indeed his judgment is strictly controlled by his wishes and desires. But if unintentionally or involuntarily he breaks his vow, the whole course of providence in his regard is at once and irrevocably altered. Then misfortune overtakes him; he is quickly overwhelmed with calamities, and his only escape lies through death and oblivion; for him there is no hope, no path leading to reconciliation and deliverance. The luckless wretch need not, in Africa at least, go far in search of death. The fiends who surround him, in the shape of fellow-men, quickly trample him to death, and with the last breath of the fetich-worshiper expires a System of the Universe, in smallest 12 mo. With the man perishes the god he himself made, and both go back into the night of Noth-

^{*} Bastian, 253. † Ib. 205 ff; Cavazzi, Relat. histor. de l'Ethiop. occid., trad. d. l'Ital. par le l'.

Labat. Paris, 1732. † Bastian, 205 ff.; Cavazzi, ubi supra.

[§] Cruikshank, 220.

^{*} Bastian, 258.

Here, too, is shown the a Negro who owned nearly 20,000 but the Mokisso was bound to avenge him annihilates himself."

But let us suppose that the savage observes his vow. "By studying the good fortune, we can get an insight into many other features of this kin I he assumes new yows, and enters into tuna adjuvat. But now his rôle becomes hazardous, as it is difficult to we have already described.

and the greater the number of his happiness of the latter. vows, the more will his time be oche will have to observe, and the more fetiches, in establishing a strict line

might of inexorable Fate. The de-fetiches, many of which, however, he votce made the Mokisso what it was: kept merely because they had belonged to his ancestors,* the infraction of his commands; he princes of Loango receive several annihilates his worshiper, and with years' schooling in a complicated form of fetich-worship, assuming new yows for each degree of initiation; and thus only are they qualified to Negro when swelling with pride at his rank among the Eligible Princes, who alone can ascend the throne. When an adult person is to adopt of worship. His good Genius makes a new Mokisso, the Ganga is not him overweening of himself, and he governed by his own private inspiralooks down upon his fellows with distion, as he is when he imposes a yow dain; but he may attain a still more on the new-born infant; but he puts exalted degree of eminence, when by himself in sympathetic rapport with his virtues he attracts to his service the postulant, and hearkens to the still other Mokissos. With this view words spoken by the latter in an ecstasy; and these words determine covenants with one Mokisso after his choice." † Nor is this of little another. His faith increases his importance for the postulant and his courage and audacity, and fortem for- future happiness. The Ganga might impose on him a vow entirely uncongenial to his tastes and inclinations. perform the numerous vows he has In that case, he would soon transtaken;"† soon it will be quite im- gress against his obligations, and possible. But if he omits any, he of- incur guilt. But the adult postulant fends and enrages the slighted fe- has a well-defined character (if we tiches, and the upshot of the matter may so speak of a savage) and the will be, that he must follow the course Ganga adapts to this the new fetich and the new vow, thus securing a The greater the number of the good understanding between the fefeticles to which a savage is devoted, tich and the devotee, and insuring the more, "in the fact that the Ganga, cupied in paying them reverence, in selecting a Mokisso for the new-Thus only freemen, the rich and the born infant, takes into account the powerful can afford to have many character of its parents' Mokisso, and feticles or to bind themselves by seeks to establish between the two many obligations. The slave must a sort of organic connection, we see bestow all his time and attention the earliest effort toward a system in his master's service, and the poor transcending the individual," ‡ The are sufficiently occupied in procuring power of the savage increases in a livelihood, neither of them have proportion to the number of vows leisure for anything beyond the sim- he faithfully performs, and of the plest devotions. The higher, there- fetiches who give him protection and fore, a Negro's rank, the more fe-strength. "Whenever the Ruling tiches he will possess, the more yows House succeed, by means of their difficult will it be for him to live of separation between themselves and without offense. Römer fell in with the rest of the tribe, they soon assume

^{*} Bastian, 254, 55.

^{† 16. 256.}

^{*} Romer, Guinea, S. 62.

[†] Bastian, S. 257.

^{1 76. 65.}

the most unlimited prerogatives. prince of the blood may then at will enslave and sell an inferior, whenever he is in want of money." * "In the king of Loango, as being the personification of supreme human felicity, resides the most unlimited authority over the Mokissos, which are themselves the very expression of unbounded Might. It is his will that causes the sun to shine; by his command vegetation proceeds; a sufficient to word from him were annihilate the universe."† On the White Nile, as also in Benin and in Dahomey, a like opinion prevails.‡ For this reason certain exceptionally powerful fetiches, the Sea, for instance, are reserved for those who govern. "The king of Quinsembo has his palace, or Banza, some three miles inland, on the bank of the river Ouinsembo, back of a line of sandhills, and he never passes beyond that line of hills seaward, lest the sea should come within the range of his vision, and he should see it. Were he to behold the sea, the consequence would be his death, and the destruction of the kingdom, as he is forbidden by the fetich to look upon the sea. Many other kings along the coast are similarly restricted, while others will eat only the products of their native soil, and eschew all foreign articles of luxury in their attire." \\$

The savage puts fetters upon himself, in proportion to the number of vows he undertakes. Thus, the greater his power, as the owner of many fetiches, the more numerous the restrictions put upon his liberty; and so the very fact that he holds unlimited power curiously enough proves in the end his destruction. The dignity of kingship, for instance, involves the service of many fetiches and the performance of many vows.

A+Should the king prove unfaithful, he brings disaster upon himself and upon his kingdom. In Congo if the king's white fez fell off his head, the accident foreboded evil to the state, just as the Japanese Dairi, should he happen by a shake of the head to alter in any way the position of his royal crown, would thereby alter the heavenly course of the sun, whose representative he was. Accordingly, all watch with the eyes of Argus, to see that the ruler discharges his yows. Wo to him if he be negligent! Then those over whom the despot once tyrannized would in turn become his tyrants. Of him may be said what Bastian affirms with regard to the entire Negro race: "No magistrate can by his prohibitions restrict him in the pursuit of his favorite enjoyments; but he will voluntarily take upon himself the shackles of his fetich. No tyrannical despot may prescribe a code of laws to govern his conduct. He makes his home wherever he pleases, and does as he likes, provided only he does not transgress the bounds set by tradition, or depart from the customs handed down from his own ancestors. But hic hæret aqua: for these customs surround him like a system of intricate snares, which it is not easy to escape. The slightest offense, when proved against him in a Palaver, is sufficient ground for irrevocably adjudging himself, his family and all his goods confiscated to the king; and the latter will have no scruple in selling him as a slave to the first trader that comes that way."* On the White Nile, when the rain fails, the king is put to death.† Among the Banyars, too, the king, who is also the high-priest-i.e., chief conjurer-is held accountable for national calamities; yet he does not pay the penalty with his life,

escaping with a sound pommeling.‡

^{*} Ibid. 256.

^{**} Total. 256; Proyart, 120; Brun-Rollet, in Bulletin de la Soc. géogr. 1852, II. 422. † Palisot-Beauvais apud Labarthe, Voy. à la Côte de Guinée, 1803, p. 137 (German tr.).

[§] Bastian, 33.

^{*} Bastian, 64.

[†] Proyart: Brun-Rollet, ubi supr.

[‡] Hecquard, Reise au die Küste und in das Innere von W. Afrika. Leipz. 1854, S. 178; Waitz, Anthr. H. 129.

age to his fetich we may recognize an lectual and moral culture. important educational element. The The savage pays worship to his fesavage imposes duties on himself—he tiches. The Negroes testified their recurbs his passions. Herein he re-spect for the anchor. The Ostiaks do nounces, to a very slight degree, 'tis honor to illustrious mountains and true, his natural willfulness. His mo-trees by shooting an arrow at them as tive is no doubt selfishness. With a they pass by. The Daurians planted view to power, he lays upon himself the burden of obligations. Yet it is a selfishness that is under restraint.

1. Worship and Sacrifice.

Such being the power of the fetich, whose good-will brings prosperity, but whose wrath is fatal, the chief study of the savage must be to propitiate him, to gain his favor and to avoid his anger. Now the savage can pay to his fetich only such homage as he is wont to render to those who claim his respect and submission. shows obedience to his fetich, by performing his vow. He resorts to flattery, prayers, gifts: in other words, he adores his fetich, and offers to him, sacrifice.

A man offers prayer and sacrifice, either in order to obtain the blessings of prosperity, or in thanksgiving for The desire of a benefits received. tranquil life is the direct expression of man's natural instinct of self-preservation. This instinct remains unchanged, whatever may be his grade in point of development and whatever may be the means which he chooses for the attainment of tranquillity. men desire it πραττείν, if not in this at least in the world to world. Knowledge, however, varies With the advance of and grows. knowledge, the objects which in a ruder age were worshiped as conferring the το πραττειών are changed for others. Hence the objects of worship in the different degrees of mental development vary widely: thus we have fetiches, the stars, gods, etc.; and yet the expression of the natural desire of prosperity is ever the same, viz., prayer and sacrifice, though in outward form there may be wide diver-

In this slavish obedience of the say-, sity, according to the degree of intel-

rough posts in the center of their huts, winding around them the intestines of animals, and the occupants of the hut never passed by the fetich without a prostration and a prayer.* The Circassians slay a goat at the grave of a dead kinsman, consume the flesh, hang the skin on a stake, and make it an object of worship.† The offerings made to the fetich are often of very trifling value, being proportioned to the wealth of the devotee. Thus the Negroes and the carly Peruvians, as also other American natives,‡ and the Siberians \$ seldom offer anything but potsherds, worthless rags, and worn-out boots and shoes. tiaks clothe in silk their fetiches, which are made to resemble the human form, and to one side of the head they attach a bunch of hair, to the other a dish, into which they every day pour broth, which then flows down either side of the idol. As a sign of their gratitude, the natives of Cabende eject from their mouths upon the fetich the first morsel of food they take at a meal, having first chewed it: and ' the idol is left unwashed and in this pitiable state until the meal is at an Many fetiches have also loend.¶ calities specially assigned to them, where they receive offerings, and we find fetich altars of various descrip-

Offerings are made to the fetiches with a view to obtain benefits from them. Thus the Negroes offer to their fetiches empty jugs when they wish

^{*} Voy. au Nord. VIII. 103.

^{† 10.} X. 447. Isbrand affirms the same as to the Burats. Voy. au Nord. VIII. 64.

[‡] Acosta, Hist. natur, et mor, des Indes occidentales. Paris, 1606, p. 206, 227; Charlevoix, 348. § Georgi, Russ. Völk. S. 389.

Isbrand, Voy. au Nord. VII. 38. S Bastian, St. Cy. Halleur, 32.

for rain; swords or daggers when arranged in a row in front of the they are going to war; fish-bones Yoo-Yoo house, and the remainder of when they are bound on a fishing-ex- the bodies are cut up, boiled in pedition; small shears or knives when a cauldron and eaten.* The Kroos they desire store of palm-wine.* The also occasionally sacrifice prisoners savage is most liberal of his homage of war to their tetich-tree. "They and of his gifts when he is in straits, but often times the fetich is utterly fice is offered to the fetiches. Even neglected in time of prosperity.† Finally, offering is made to the fetich, being regarded as lucky, others as in thanksgiving for benefits received, after a successful fishing-expedition or warlike foray; after a prosperous chase or harvest; after the birth of a child; after recovery from sickness, and escape from danger.‡

Animals and even human beings \$ are offered to the fetiches. On perilous routes and rivers the American Indians make offerings of birds or of dogs, sometimes binding the legs of the latter together, and leaving them suspended from a tree to meet their fate. To such fetiches as bears or deer they offer maize; and to a maize-fetich they offer bears' flesh.¶ "In Bonny the most beautiful maiden is annually offered to Ihu-Ihu, or Yoo-Yoo**-a name denoting priest, temple, or place of sacrifice, as well as any guardian deity. Probably it here stands for the Sea, to which an offering is ever made on a fixed day. The maid chosen to be offered to the god has her every wish gratified, and whatsoever she touches becomes her property.†† The priest who performs the human sacrifices, bites a piece out of the neck of the victim, while life still remains. When captives are sacrificed, their heads are

have many festivals whereon sacridays become fetiches for them, some unlucky. In Ashantee there are but 150 or 160 lucky days in the whole year, when an enterprise of moment may be commenced with any hope of success.‡ On the Senegal Tuesday and Sunday are dies atri, but Friday is a still more unlucky day, and hence a certain Bambarra king had all children born to him on a Friday put

to death. As a mark of respect for the fetiches their worshipers build houses to shelter them, temples. The Wotiaks | and the Ostiaks ¶ build for this purpose miserable huts, but the Abipones** and the Negroes affect some small regard for ornament. Bastian gives the following description of an African fetich-house: "The temple was quadrangular, constructed of straw matting, the entire front being of wooden framework, with three arched doorways. Each of the two side-doorways was surmounted by a pyramid, while over the middle one rose a cupola: and the door-posts were adorned with figures in black and green. Within was a simple mound of earth, on which stood three forked sticks painted red and white in alternate stripes."††

The Yoo-Yoo house in Bonny is 40 feet in length and 30 in width. At one end stands an altar 3 feet high. and a small table with a vessel holding tombo, a kind of spirituous drink.

^{*}G. Lover, Relat. du Voy. du Royaume d'Issiny, Par. 1714, p. 248. † Charlevoix, 347; Bosmann, 445. † De Bry, VI. 20; Loyer, 248; Charlevoix,

^{348;} Georgi, 389; Valentyn, Oud en Nieuwoost Indien. Amsterdam, 1724, III. 10.

^{\$} Charlevoix, 118; Georgi, 338; Valentyn,

^{||} Charlevoix, 118, 348, Cf. Waitz, II, 207. || Loskiel, Gesch. der Mission der evangel. Brüder unter den Indian. in N. Amerika. Barby, 1789, S. 53.

^{**} Holman, Voyage round the World (1827-

^{32).} Lond. 1834, I. 378. †† J. Smith, Trade and Travels in the Gulf of Guinea. London, 1851, p. 60, 68.

^{*} Ibid. p. 82.

[†] Waitz, Anthr. 11, 197 seq. † Bowdich, p. 363 seq.; Dupuy, 213 note. § Raffenel, p. 183; Mungo Park, Sec. Journey (in Bütner's translation). Nordhausen, 1821, S. 315. (7. Waitz, H. 201. Rytschkow, Tagebuch, S. 166.

T Vov. au Nord. VIII. 103.

^{**} Dobrizhofer, 11. 99.

^{††} Bastian, 50.

in glasses and flagons, and on the fetich is a savage, and on occasion is walls hang pictures, chiefly represent- to be treated as a mere savage. So, ing the Guana lizard. The foreigner it despite prayers and gifts he refuses a mark with moist clay between the tend seriously to his business.4 If enemy's life is safe.‡

Having done due honor to his fetich and made to him such offerings as the prevalence of an epidemic the nahe worships; nor is the fetich, when from disease.‡ the worst comes, the superior of the sion of another being cannot tran-sold, exchanged, or even stolen. scend the sum total of his actual conbeing as possessed of attributes of tion. Consequently the savage's fetich will be what the savage is himself. Now the savage is given to falsehood and treachery; he is usually cruel, selfish and wayward. From what he is himself he judges of human nature, and these same data make up his conception of the fetich. From a moral point of view the fetich is no better

There is abundance of wine and rum than himself; like his worshiper, the is waited on by a priest; for in Bonny to grant what is asked of him, then he strangers have ready access to the is to be handled roughly till be yield temple, whereas elsewhere he is ex- to force what he denies to entreaty, cluded. The priestly attendant mut- We have already seen how the fetich ters a few unintelligible words, makes is pommeled in order to make him atvisitor's eve-brows, and rings a bell, the Ostiaks are unsuccessful in the A glass of tombo is then handed to chase or in fishing, they inflict severe the stranger, and thus he is admitted chastisement on their feticles for havto the mysterics, and initiated. ingled them away from the game, or These fetich-houses are in many parts, for having failed to render assistance. of Africa, asylums, especially for run- The punishment over, they become away slaves; † and in the medicine-reconciled again with the unfortunate huts of the American Indians even an culprits, give them a new suit of clothes and other gifts, in the hope that they will now do better. During his means allowed, the savage counts tives of Kakongo entreated the fewith certainty on a return. For though tiches for relief; but as the pestilence he stands in great awe of his fetich, continued, they threw their fetiches still the relation between the two is into the fire.† The same was done not such as to make the devotee in all by a Lapp who had in vain prayed to cases the bounden slave of the object his fetich to perserve his reindeers

As the savage renounces feticles The savage is too wild and which prove of no account, so he passionate to submit to such absolute strives to get possession of those control; and the moral character whose power is known. The fetich which he attributes to his divinity is thus becomes an article of commerce not such as to make the latter a para-; and barter; and numerous instances mount Destiny. A man's apprehen- might be cited of such articles being is chiefly the priests that carry on this ceptions. He cannot conceive of a traffic: | and both in Africa and in America the price of valuable feticles which he has never formed any no-lis very high; indeed their owners are rarely willing to part with them at any price.

^{*} I. Smith, p. 60.

[†] Howdich, p. 361; Monrad, 44. † McCoy, Hist. Baptist Ind. Missions. Washington, 1840, p. 195; Perrin du Lac, Reise in die beiden Louisianen (1801-3). Leipz, 1807, L 174.

^{*} The Cingalese have the same custom-UZZ Knox, Histor, Relation of the L of Ceylon. Lond. 1681, p. 83. Also the Mada-gascans. Flacourt, Hist, de la grande l. de Madagascar, 1658, p. 181; the Easter Islanders, Georgi, 385; the Ostiaks, Voy. au N. VIII. 413.

[†] Provart, 310. ! Hoystrom, S. 319. Cf. Waitz, Anthr. II.

^{185.} § Bosniann, S. 99; Atkins, Voy. to Guinea, Brazil and the W. Indies. Lond. 1737, p. 104; Charlevoix, p. 347. Cf. Waitz, ubi supra. See following section.

^{€ (7.} Waitz, III. 214.

z. Fetich Priesthoods.

Starting from small beginnings, but gaining strength as it advances, fetichism at last extends its influence over the whole life of the savage. We have soon no end of fetiches and fetich usages, the knowledge and understanding of which requires study, and can be acquired only by the initiated and those who devote their lives to this special branch of learning. The mere layman is quite inadequate to treat of so complicated a subject without making fatal errors. Only wise men are competent to expound so abstruse a science. The man who knows all the fetiches and the entire ritual. is by this very knowledge distinguished from the profane and ignorant multitude he is an eminent and reverend personage, as being master of many recondite arts all unknown to the generality. Thus if we take into account the low intellectual status of the savage, we shall see that those possessed of this mystic science will necessarily come to be regarded as priests, magicians, medicine-men, etc., or in short fetichmen-for all these terms have that one signification. The fetichman's importance and dignity are the natural corollary of the system to which he belongs.

The feticeros are sages. They understand the entire system, and are familiar with all the fetiches and the mode of preparing them, their respective powers and their names. America it is the Jongleurs* (conjurers) in Siberia, the Shamans, † in Africa, the Gangas ‡ (different titles for fetichmen) that supply all the fetiches. That the trade in fetiches is remunerative we may judge from the fact that each Indian village has twenty or more fetichmen and women who thence get a living. In Africa, too, this trade yields a fair income.\$

The fetichmen are also familiar

with the ceremonies to be used in order that the fetich may be induced to exert his full power. They "know all the potent formulas for blessing the elements."* The safest course to pursue, therefore, is to have the feticeros themselves apply the fetich. Hence, the priest's influence is coextensive with that of the fetich. In assigning powerful fetiches for the cure of disease, and in applying these, he acts the part of a physician. When by his fetiches he constrains thieves. the winds, the clouds, spirits, etc., to do his bidding, he becomes a conjurer, or magician. Finally, masmuch as he has special control over religious rites and sacrifices, and thus comes into close relations with the fetiches. he is strictly a priest. Yet at bottom all these functions are identical and are all implied in the one title of fetichman. The distinction, therefore, sometimes made between the fetichpriest and the conjurer is merely a relative one, as Bastian has well observed.† Hence among some inconsiderable Eskimo tribes a single priest will combine in his own person the various functions of the feticero. being at once physician, conjurer and priest, while under other conditions a division of labor takes place, determined by chance or by inclination. Thus in Negro tribes one fetichman devotes himself to the medicine-fe tiches, and is a physician, another professes the art of rain-making, or some other branch of conjuring; a third is devoted chiefly to the ceremonies of religion. In North America the Jongleurs give counsel as to the manner of appeasing the fetiches or gaining their good-will, but do not offer sacrifice. This function is discharged by the chief on behalf of the tribe, and by the father on behalf of the family.‡ The same is stated as to the Tcheremissians and other Tartar tribes. On the other hand, in

^{*} Charlevoix, p. 346; Lettres édif. VI. 174.

[†] Georgi, S. 384. † Des Marchais, I. 296. \$ Waitz, H. 196, HI. 213.

^{*} Bastian, 85.

[†] Ibid.

[†] Charlevoix, Journ. Hist. d'un. Voy. de l'Am. Sept. p. 364.

[§] Rytschkow, S. 92, 93.

sundry tribes of Siberians,* Kirghis † Mutinu-a-maya (Lord of Water) diand Negroes ‡ the conjurers offer sacritice. The Calmyks \$ and many Ne- | a stream. The Molonga prognostigro | tribes recognize a distinction cated the issue of disease from boilbetween conjurers and priests, while in some African and American tribes ¶ the conjurers assume all the functions. of priests, and vice versa.

Of all the feticeros, those who are priests are usually held in the highest consideration. "Among the Yagas the Gangas have precedence of the Scingilli, or Rain-makers, and it is their duty, when a warlike expedition is to set out, to paint the Grand Yaga red and white, as he awaits the inspiration of the Mokisso, and to hand him his battle-ax, after he has banqueted off. the body of an infant slain in sacrifice. When victory is proclaimed the Gangas obtain the trophies of the fallen enemy. At the period of the New Moon they offer the five-fold sacritice, when, after the sacrificial fire has been sprinkled with the blood. the whole tribe join in a boisterous feast the victims' bones being carefully preserved for magical purposes; as is also the custom among the Tohungas of New Zealand. The Gangas have also to guard from profanation the Quilumbos, into the inner recesses of which no woman is ever admitted. and to expose in the woods the newborn children, as the army, like the corps of Mamelukes, is made up only of young slaves." ** Cavazzi, whose sojourn of 14 years in Angola and Congo gave him the best opportunities for acquiring a knowledge of Negro customs, describes a number of different classes of fetichmen with distinct functions pertaining to each class. The children of a man killed by lightning applied to the Ganga Amaloco, to get for themselves protect the Gbalo, or Talkers, who summon tion against a like visitation.

. Gmelin, Reise durch Sibir, i. d. Jahren, 1733-37. Gött. 1751, 11. 359, 360.

* * Bastian, 95.

vined by means of a calabash east into ing water; and the Neoni from revelations conveyed to him from his idol. through the mouth of the Nzazi. If these prophecies proved false, the priest laid the blame upon his Famil-Spirit, and procured another. The Ngodi professed to give speech to the dumb. The Amabundu could shield from harm seed sown in the The Ganga Mnene could ground. prevent evil spirits from eating up the grain after it had been harvested. The Ganga Embugula could by whistling overpower his enemies. Npungu, the Cabanzo and the Issacn were associated together in the work of shielding the warriors from wounds, and took one another's places whenever one of themselves happened to be wounded. The Agurianambua could charm elephants into the toils; the Abacassu, stampeded cows; and the Apombolo, all kinds of wild animals, The wealthy brought their deceased relatives to the Nganga Matombola, who by means of his magical figures caused them to rise from the bier, to move their limbs and to walk about.* "On the Gold Coast the Wongmen differ from the priests, properly so called. The Wongmen are possessed by the fetich, Wong, and any man may become a wongman provided he has learned to dance to the sound of the drum, to chant the songs which are sung when the oracle is consulted, and to perform the ritual of the medical art. There is another class of fetichmen, the Otutu-men, who also profess the art of healing, and who attend to the Ordeals. Then there are spirits and question Finally there are the Hongpatchulo, who sell charms to people that wish a curse or an enchantment to befall their enemy. Besides priests some tribes have also priestesses. In the northern Negro countries, where a

f Pallas, Reisen durch versch. Provinzen d. russ. Reiches. Petersburg, 1771, I. 393, 394. ‡ Oldendorp, L 339.

[§] Pallas, L 359. Oldendorp, L. 339.

^{*} Acosta, V. c. 26, 248; Cavazzi, I. 253 seqq.

^{*} Cf. Bastian, 201.

nominal Mohammedanism prevails, there is not to be found such a variety of priests and conjuring physicians. Here we find the Marabouts, who, in addition to their priestly office, practice divination and drive a trade in Gree-Grees, though among these are many who have nothing to do with such jugglery, and whose study it is to gain a name for piety and beneficence. Hence the Joloffs make a wide distinction between the true Marabouts and the Thiedos (Unbelievers, Atheists, mercenaries), who believe in nothing save their greegrees."*

Among the Kaffirs, too, the Conjurers, Inyanga, are divided into several classes, the highest being that of the Izanuse, or "Smellers," who extract the witchcraft from the sick by sniffing; while the inferior classes embrace the cow-doctors, the farriers and the fellers of timber.†

The conjurer-doctors, or medicinemen, who are common to Africa, Asia and America, either blow their breath upon that portion of the patient's body where the fetich locates the disorder, or rather the enchantment; or they resort to suction, friction or pressure on the diseased part, until finally they drive out the spell, which makes its appearance in the shape of hair, splinters of wood, thorns, bones, snakes' teeth, and the like.‡ They prescribe for their patients formidable remedies and regulate their diet. Should the sick man die they throw the blame upon him, as not having exactly carried out their prescriptions. they see no chance of a patient's recovery they prescribe a course of treatment which he cannot possibly follow, such as violent jumping, or dancing,

As a matter of course, the fetichpriests are soothsavers, and the mouthpieces of the oracles. The Lappish and Siberian Shamans divine means of a ring which they place on the head of a magical drum. beat a certain number of taps on the instrument and then observe on which one of the figures painted on the drum-head, the ring stands. figure has a special significance; and as this is known only to the priests themselves, the response will be whatever they choose to make it. tian, Sajanian and Abinzian soothsavers divine by means of 40 small rods thrown upon the head of a magic drum; the Tungoos from the whir of tarrows shot from the bow, or from the vibrations of a tense bowstring. The N. American Jongleurs set fire to pulverized cedar charcoal, and divine from the direction in which the fire travels.

In Africa, the Npindi conjured the weather at the intersection of roadways. "The Rain-makers have at all times, and among every people, acted an important part, and many African populations invested their princes with this dignity, which was often as

and thus they escape all responsibility for his death.* The Hottentot poisondoctors are famous. No snake can sting them, and not alone can they heal the bites of serpents by their sweat, but they can confer on others the same power.† A priest-physician in Congo had in his establishment five women to treat various diseases. His pharmacopæia, however, had but few medicaments for any complaint save for the Mal Francez; but abundance of magical formulæ. ‡

^{*} Waitz, H. 199.

[†] Ibid. 412.

[‡] Greenlanders, Cranz, S. 270-74; Am. Ind., Charlevoix, 264-268; Hennepin, in Voy. au N. V. 293; California Ind. Begert, 142; Natchez, Petit, Relations, etc, in Voy. au N. IX. 26; Caribs, Biet, p. 387; Gumilla, hist. de l'Orinoque Avigum, 1708, II. 185; Du Tertre, Hist. gen. des Antilles, II. 366 seq.; Brazilians, Lery, p. 242-47. Cf. supra, Section II.

^{*} Charlevoix, p. 368. Des qu'ils voyent un malade tourner à la mort, ils ne manquent jamais de faire une ordonnance dont l'exécution est si difficile, qu'ils ont à coup sûr leur recours sur ce qu'elle n'a pas été exactement suivie.

[†] Steedman, Thompson, v. Meyer, Reise in S. Afrika (1840). Hamb. 1843, S. 158; Kretzschmar, S. Afr. Skizzen. Leipz. 1853, 167 ff. Cf. Waitz, III. 213.

f Bastian, 202.

[§] Georgi, Beschreib. S. 395. || Charlevoix, p. 363.

power over the harvests for the an- pean manufactures; as any delay in event kings of Sweden. The Em- the arrival of the merchant-vessels peror of China devolves upon his sub- may occasion suffering to the natives. jects the responsibility for his lack of Inasmuch as they do not themselves power in this regard, assigning as tempt the deep, the conjurer could the reason their wickedness. The find no market among them for Laphair and nails are plucked from the pish Æolus-sacks; and instead, he rebody of the Mani of Jumba, after his tires into his hut, which smokes and death, and preserved as infallible rocks while he is engaged inside with rain-makers. The Makoko of the his redoubtable incantations, conjur-Anzikos wished to get for the like ing up the favoring breezes which purpose one-half of the beard worn by shall conduct to their shores the fleets the missionaries, and would even of the white men." * agree to undergo the ceremony of baptism as the price of so potent a possesses over Nature, over Spirits, charm, just as the despot of Benin men and beasts.† The common agreed to pay the same price for a people have full faith in this power; and white wife." * Bastian thus describes as the priest himself is no less a savthe manner of conjuring the rain; age than they, his faith is the same. "The sky was overcast and the thun-Should his incantations fail to proder rolled above the mountain-tops; duce the desired effect, he accounts but when I expressed my fears of a for the failure by supposing that storm, my guide assured me that I counter incantations have been at need have no apprehension, as one work, or that the ritual has not been of the officials who accompanied me strictly observed, and this explanation was an accomplished rain-conjurer, satisfies not alone others, but also and he had promised that he would himself. There are even at this day not permit a single drop to fall. I was plenty of people in civilized Europe fain to accept the assurance, and the who tell fortunes, who practice necromore so, as I saw my Zeus Aetherius mancy, who profess to cure diseases rise to his feet, shake his raven locks. by the imposition of hands and other extend his hand menacingly toward similar means; and who are themthe clouds, and point with his finger selves no less deceived than those in every direction. My carriers, who who employ them. The records of looked on devoutly, thought the cere- courts of justice and the reports of mony was now at an end, and made asylums for the insane are sufficient off with the tipoja (mat-palanquin): evidence of this. "The Cazembe but scarce had we left the tree, be- now in highest repute regards himself neath which I had hoped to be shel- as immortal by reason of his magic tered from the rain, when the flood- arts, and says that his predecessor's gates of heaven were opened, and in death was due to a want of precaution. an instant I was drenched to the He is possessed of such an excess of skin."† Rain-makers are to be found everywhere in Africa, as, for instance, among the Bushmen‡ and the Kaffirs, \$ should come in contact with him; and who at first took the missionaries to there is accordingly a curious ceremobe a new kind of rain-makers.

"The wind-maker, too, is an important personage ever since the Negroes

full of danger for them as was the have become accustomed to use Euro-

Such is the power which the feticero magic power that its superabundance would at once annihilate whosoever nial to be observed, in order to avoid such consequences. This ceremonial would almost appear as though plagiarized from the animal-magnet-In their system it is called izers.

^{*} Bastian, 116, 117, 118.

[†] Ibid.

[‡] Lichtenstein, H. 102.

[§] Campbell, 2nd Journey, 230, 236, 238; Thompson, Trav. and Adv. in S. Afr. I. 180.

^{*} Bastian, ub. supr.

[†] Waitz, V. 1, 178.

Dorsal Manipulation, and its purpose They can also cause ghosts to appear is to re-isolate the somnambulic sub- on occasion, to inspire the vulgar with

ject."*

first to detect the imposture and to was situate on the edge of a dense discover the impotence of their idols forest, and on learning that in the and of their own arts. Still, lest the forest there was a fetich-house, I dipeople should be shocked by the pub- rected my men to advance by a cirlication of this discovery, the priest cuitous foot-path leading to it. They will keep it to himself, henceforth act-stoutly refused, saving that not one ing the part of a conscious deceiver, of them could come back alive: and from motives of selfish interest and it was only by repeated threats that surround himself with a veil of mys- as soon as the villagers were aware tery, and resort to all manner of of my purpose, they surrounded my tricks and fraud.

to be found among African tribes is tion: and threw themselves before events, and this is handed down from their advancing—a very unnecessary one fetich priest to another as a se-thing to do, as the carriers themcret of the craft. Accordingly, when selves showed no disposition to go application is made to the priests forward. for counsel, the knowledge which examine a second fetich-house, I they possess of the past history of paid no attention to their entreaties, the various families of the tribe, gains pushed back those that stood close for them the credit of inspiration." † around my palanguin, and repeated They alone are privileged to hold my command to move on, with some home, without being torn in pieces.‡ breasts, and the seniors rolled them-They are not men of the common selves in the dust alongside the palmedicine-men and medicine-women was at length obliged to vield. of pinnate seeds, something like the the forest there went up a fearful belcome into relations with mighty and which imitated all manner of in spirits, whose preternatural science describable noises.

due respect for the fetich and for his Undoubtedly the priests are the retreat in the woods. "The village With this view he will I could induce them to move. But mat-palanquin en masse, entreating "The only kind of historic record me not to expose myself to destructhe traditional narrative of important the feet of my carriers, to prevent However, as I longed to converse with the great dread fetich emphasis. The whole multitude then who dwells in the recesses of the uttered the most pitiable cries. The forest, and to tread the floor of his women tore their hair, and beat their mold their origin is enveloped in anguin, invoking the power of heaven Among the Dakotas the and earth to check my progress. first come into the world in the shape we went up the ravine which skirted seeds of the thistle. Then they are lowing, which seemed to issue now driven about by the winds and thus from one quarter, again from another, The Negroes. and power they make their own, terrified by this outburst of fetich Next they gain entrance into the indignation, ran in all speed from the womb of a woman, and in due time locality, to escape from the wrath of are born with human bodies; though the god for there great Pan is not after death they return to the society yet dead." * The Great Spirit of the of the gods. After they have four Shekani and the Bakele dwells in times run their career in human shape the bowels of the earth. At times they are annihilated. They may like- he comes forth, and takes up his wise be transformed into wild beasts. \$\footnote{\text{dwelling}}\ in a great house which has been built for him, and there he

utters such frightful bellowings that

^{*} Bastian, 293.

[†] Ibid. 100.

[†] Lettres édif. IX. 95; Dobrizhofer, II. 99.

[§] Waitz, II. 180, 504; V. 2, 178.

^{*} Bastian, 193.

women and children tremble with time of his saltatory skill, fear.*

Bastian was entertained by the

The priests are deeply versed in the science of ghostly apparitions. "The Spirit-seers of America might get from African professors many practical rules for the converse with Spirits, which they could readily turn into But they must make hard cash. haste, for the courts of justice at Cape Coast Castle are beginning to shed light upon the mystic cloud of secrecy which involves Negro spiritism, and have already condemned more than one unmasked fetichman as an impostor. As society assumes definite shape in the colony, the more dangerous fetich practices are more and more brought under the control of the law; and the peaceable citizens adopt the policy of favoring and strengthening the Mylah ceremonial in opposition to that of the Obeah; thus, in the words of S. Augustine, patronizing theurgy in order to discredit gocty." †

Nor must we omit to take note of the ceremonies performed by the feticeros. These are usually conducted in the most fearful style of wild and boisterous frenzy. In proportion as the rational faculty is developed, a man controls more and more the external bodily signs of emotion. power of speech has attained that degree of perfectionment, that he can readily convey to others by that means all his sensations; he uses language. But the lower the grade of mental development, the weaker is the power of expressing in words the sensations and emotions of the mind. Clowns and children speak by means of gesture, and their whole body seems to With the express their emotions. savage accordingly, whose language is fragmentary, the lack of verbal expression must be made up by violent When the King of gesticulation. Dahomey would do honor to a foreign guest by chanting a song of praise, he must also give proof at the same

† Bastian, 101, 85.

When Bastian was entertained by the king of Shemba-Shemba, that potentate simply kept up a movement of the feet a tempo, and made frequent genuflections, in performing which he would slip partly out of his seat, and give his little cap of bast a graceful toss on his poll. Several nations resort to the mimic hieroglyph language of the dance.* It need not occasion surprise, then, if the savage, when under the stress of violent emotions. finds expression less in language than in cries and shouts, wild gestures, leaping and rolling on the ground. We have already seen many examples of this.† But whence does the priest or the conjurer derive his power over the objects against which his conjurmg arts are directed? This power comes from his fetiches. They must endow him with the power they themselves possess and must in his person make display of it. Accordingly the conjurer becomes transformed, and pssessed of unwonted strength. has to manifest the presence and efficiency of the Power which possesses him, and the expression which he gives to it, is the same as that by which he gives utterance to every strong and passionate emotion, viz., the wildest and most violent convulsive movements of the body. Maniacs are by savages regarded with great alarm, as being possessed by spirits.‡ It is perfectly natural, therefore, that the conjurer, when possessed by the spirit of the fetich, should become for the time being a maniac. When the priest has wrought his mind into the last degree of frenzy, he is judged then to have attained the height of his magic power, and to manifest to its full extent the dread might of the fetich. It is therefore the business of the priest to know how to arouse himself to this state of frenzy. If nature qualifies him for the task, so much the better; and for this reason the

^{*} Wilson, Western Africa, etc., p. 391.

^{*} Bastian, 56.

^{† (7.} Waitz, II. 205 seq. 223.

[†] Georgi, Beschreibung, S. 376, Gmelin-IV, 109.

priests select children who are epilep-ted in proportion to the antiquity of his tics, to be trained to the priestly func- Shaman ancestry.* The dexterity of tions.* "The Shamans pass into the the Shamans in performing their feats state of madness by a super-excita- of psychical jugglery we may learn tion of the motor system, and at the from the account given by Carver. same time often become the subjects. He saw an elderly member of "the of hallucination, accompanied by com- Friendly Society of the Spirit," which plete mental alienation, owing to spir- is an association of fetich-priests, itual excitement. By careful training, throw at a young man who was to be children of feeble nervous constitu- elected into the society, a bean, or tion are educated to pass readily into something that had the shape and this state of alienation and phantasy, color of a bean. "Instantly he fell and so attain in this art a degree of motionless, as if he had been shot." perfection unattainable under any He remained insensible for a considother conditions. Just as jugglers erable time, until he was brought to perform feats of skill which fill us with his senses by means of very violent astonishment, though an anatomist friction and even blows. And even will show you, from the arrangement then, consciousness returned only of the muscles, how such sleights are after he had passed through a series rendered possible: so the Shamans of the most fearful convulsive fits.† are a kind of psychical jugglers, who The witches also, in the middle ages, have in childhood been trained to per-fell to the ground, as though dead, form several abnormal mental opera- when forced to anoint themselves tions, which we neither can nor would with their witch's salve.‡ In proimitate, or even countenance. On the portion as the priestly office, having contrary, we suppress all tendencies taken root in society, becomes a heritin that direction as quickly as they able privilege, and as the nervous premanifest themselves. But there may disposition, which at an earlier period even be *normal* mental operations determined the selection of the candiwell-developed in the savage, which date, is lost under the influence of we lack; just as we lack some of his prosperity, the more difficult does it physical accomplishments, for in become to bring about the state of stance, the power of employing the ecstasy by means of convulsive operatoes in place of the fingers, for the tions, and then resort has to be made purpose of weaving, grasping, etc.: to sundry contrivances, viz.: deafening a faculty possessed by the Cochin-Chinese, Polynesians and other races." †

is enlarged by hereditary transmission. partial strangulation, etc. Inasmuch as epilepsy is heritable, methods are universally employed by it is not unusual for the office of fetich-priests, to attain their purpose. Shaman to be handed down from The Jongleurs of the American Contifather to son for from four to six nent practice such contortions of body, generations, and a Shaman is esteem-

† Bastian, Die Seele u. s. w. S. IX.

music, violent jumping, inhalation of narcotic vapors, the repetition of monotonous sounds, excessive transpira-This faculty of psychical jugglery tion, protracted abstinence from food, and utter such hideous cries, that not alone the spectators are filled with consternation, \$ but even women and

^{*}As to the Siberians, Georgi, ub. sup.; Patagonians, Falkner, Descr. Patagon. Lond. 1774, p. 117; "They who are seized with fits of the falling sickness or the Chorea Sancti Viti, are immediately selected for this employment, as chosen by the demons themselves: whom they suppose to possess them and to cause all those convulsions and distortions common in epileptic paroxysms; Greenlanders, Cranz, S. 268, 270.

^{*} Gmelin, HI. 331.

[†] Carver, Trav. through the Inter. Parts of N. America. Lond. 1778, p. 271, 274.

[‡] Bodin, de la Demonomanie des Sorciers. Paris, 1581, p. 96-99; Malleus Malefic. Lugd. 1669, H. 69.

[§] Charlevoix, p. 361 seqq.: On les y voit entrer dans des convulsions et des enthousiasmes, prendre des tons de voix et faire des

promise of a considerable reward. This artificial frenzy has such a serious effect upon the body, and more the Shamans become blind: a circumstance which enhances the esteem that is calculated to inspire fear. in which they are held. I

children at a distance are thrown into attracted by it. They therefore convulsions of terror.* By means of keep up a drumming until those besimilar contortions and shouting the ings make their appearance; i.e. un-Shamans of Siberia and the African til the drummer himself, by his viofeticetos work themselves up into the lent exercise, has passed into the state of costasy,† To expedite matters, state of costasy. The drum is somethey drink tobacco-juice, or resort to times replaced by a staff hung with exhausting vapor-baths.‡ The Sha- bells, or by some other noisy instrumans of Siberia drink a decoction of ment,† The Dakotas, besides the toadstools or the urine of those who drum and the clappers, employ a have become narcotized by eating notched bone, with which they saw that plant.\ The highly excited upon the edge of a tin dish: and thus nervous condition produced in the they produce shrill, ear-rending conjurer by his fearful bodily exerci-sounds.‡ Isbrand gives the following tations is so exhausting that many re- description of the Shaman's leather fuse to go through them, even on conjuring mantle: A sort of long coat (casague), adorned with pendent figures of iron, representing all kinds of birds, fishes, and wild beasts: arparticularly the eyes, that many of rows, saws, hammers, swords, clubs in a word, every conceivable thing mantle of this description is so heavy Among the means employed for the that a strong man can scarce lift it purpose of inspiring the beholders with one hand, || and when the with awe we must reckon the attire of Shaman, clothed in this garment, the fetichman. And first we have the leaps and jumps about with all his conjurer's mantle and his magic drum, might, there arises such a clangor —apparatus which appear to be want- that you might well imagine you had ing to the Shaman men and women of before you some fiend in chains. Kamtschatka alone of all the Sha- And the remainder of his equipment mans of Siberia. The drum is a similar perfectly in keeping with his mantle; ple sieve, a sheepskin being drawn his headdress, the plumage of the owl over one rim, and the inside of the and the eagle, the snake-skins and frame having a lot of jingles and lit- horns suspended here and there for tle idols suspended from it. The real effect, and the gloves, resembling the purpose of this instrument—viz., to paws of a bear. African feticeros deaden the senses by its noise-is trick themselves out with the skins of very different from that assigned tigers and lions. They daub their by the Shamans. They assert that faces with white paint, and the rest of the gods and the spirits have a lik- their bodies with other colors; or ing for this fearful music, and are else they give themselves a true coat of tar and feathers. Then they suspend from their persons a number of little bells, animals' heads, wings and claws; drums, weapons, horns, herbs, roots, etc.** Thus weighted they

actions, qui paraissent au-dessus des forces, humaines et qui inspirent aux spectateurs les plus prévenus contre leurs impostures une horreur et un saississement, dont ils ne sont pas les maitres.

^{*} De Lery, Hist, d'un Voy, fait en la Terre de Brésil. Géneve, 1580, p. 242-47, 298. † Georgi, Beschr. S. 320, 377, 378; Gmelin, Reisen, L. 285, 397, 398; Isbrand, in Voy, au N. VIII. 56 seqq.: Romer, 57, Bosmann, 260.

[‡] Charlevoix, p. 361, 362.

[§] Georgi, S. 329. Charlevoix, p. 362.

[¶] Georgi, ub. sup.

^{*}Georgi, Beschr. S. 378 and S. 13; Gmelin, H. 49.

[†] Georgi, S. 13, 378; Gmelin, I. 289. † Schoolcraft, Illustrations, Pl. 75.

[§] Isbrand, p. 56; Georgi, Beschr. S. 377;

Gmelin, I. 397, 399; II. S3. $\parallel Ibidem$.

[¶] Gmel in, 1. 398. ** Ibid.

dance, howl, scream, and foam, as is head the hat his father wore. Havrelated of the conjurers of Thibet: ing once ascended the throne, the use saltitant, torquentur in omnes partes, of cocco (arum acaule) and of the flesh fremunt, furunt, strident, ululant, etc.* of the wild boar and the porcupine is These operations they perform in the interdicted to him."* The priest is mystic gloom of some darksome hut, or also a jurist, giving judgment on cases in total darkness,† These conjurers where the individual comes in conoften perform tricks of common jug- flict with the laws of the state. "The glery. Thus they will perform a trick only concession made in a primitive called "washing with fire," where they condition of society to the common dexterously separate the fire from the weal by the Negro (who in all other ashes, suffering only the latter to touch respects is absolutely independent), is their bodies; or they will tread bare- this, that he accepts the ancient tradifoot upon hot coals, pierce their bod-tions, and acknowledges their bindies with arrows, or knives, etc.‡

By such artifices as these the power and influence of the feticeros, which least possible restriction on his liberty, were already secured to them in popular estimation by their intimate converse with the feticles, are enhanced vond his control. He studies to keep The assistance of the enormously. fetich priest is indispensable on all occasions, whether public or private, and them, never strives to determine preis always invoked. Hence at Fernando Po the Chief Priest, or Botakimaon, is "a weighty man in the state." Each village has its own Buveh-rup, who gives counsel in domestic concerns. This Buyeh is, however, a far less important personage than the Botakimaon, at whose residence the Negroes assemble in the season of the Ripe Yams to celebrate the "Custom." It is the Botakimaon who crowns the According to Consul Hutchison (in his interesting work, Impres- is in any way obscure, is ascribed to sions of Western Africa), "the Botaki- witchcraft, and the kindred of the maon, previous to the ceremony of deceased are obliged to avenge his coronation, retires into a deep cavern, death; the priests who conduct the and there, through the intermediary ordeal are invested with formidable of a Rukaruko (snake-demon) consults powers. The cause of death being the demon Maon. He brings back obscure, the kinsman of the deceased called tsheoko, and puts upon his inently fitted to be his guides. He

ing force: but now, even while he is determined that these shall place the he assigns to them a weight of authority which soon removes them bethem as far as possible in the background; he never meditates upon cisely what they are. The consequence is, that he is soon caught in the toils, and can extricate himself only by the aid of those who are skilled in legal technicalities, i.e., the priests. He thus is at their mercy, and becomes their slave." † In his capacity as jurist the priest administers oaths and conducts the ordeals. This latter function is in their hands an engine of boundless mischief. " As every case of death whose cause to the king the message he receives, has no course left, save to follow the sprinkles him with a yellow powder directions given by those who are emaccordingly applies to the fetichman and inquires of him what foe has done this deed. The priest ascertains dur.

^{*} Cavazzi, II. 183, 196, 251. Same account given of the savage inhabitants of the isth. of Darien, California and Brazil by Wafer, Vovages où l'on trouve une description de l'isthme de Darien (Apud Dampier, Voyages, Tom IV.) p. 176; Lery, 242, 247, 298; Begert, Nachrichten von Californien. Mann-

^{*} Cf. Bastian, 318, 319. Tsheoko is a vegetable product, obtained, according to Hutchison, by collecting a creamy coat that is found on the waters at the mouth of some small heim, 1712, S. 142, 159, 165.

† Alphab, Thibet, p. 243, 244.

‡ Gmelin, H. 87; HI. (Vorrede) S. 7; III. chalky mass of the residue, rivers, evaporating the water and forming a

[†] Bastian, 167.

FETTCHISM.

ing sleep or in a trance the response power attains its highest develophe is to make, and names the offender. ment in the Chitome of Congo. He Next the Ordeal-Water; or the body is not honored as the principal minof the deceased, as the bearers halt ister of the gods or feticles; he is before his hut; or the discovery of himself a god, a fetich. His person buried talismans, will put the guilt of is incomparably more sacred than the accused beyond question. By de-that of any king in Africa: his power cree of the Palaver he is arrested, greater, and his house more jealously bound hand and foot, and hewed to guarded against profane intrusion. pieces: for it is a religious duty, in- He may commit what crimes he will, cumbent on every member of the com- but no man can so much as call him munity, to take part in the execution to account, far less seize his person of the culprit. The tyrants of the Zu- or intlict punishment. Without his his availed themselves of this dogma, will and assent the king can undertake to further their political aims. On the no business of importance, and no faith of oracles which accorded with minister of the king can assume their own desires, they extinguished office. Newly-appointed governors almost the entire aristocracy of their visit, with a great retinue, the palace nation, and grew rich by confiscating of the Chitome, and with all humility the herds of the condemned." *

from the fetich. the will and command of the fetich: " priest's own desires find expression: to every command of the Chitome, and thus they become a law for the The humbled governors consider of the fetich priestly power is spegives them a brand from the sacred worships, as his greatest fetich, the sa- of all the products of the field becred serpent, of which we will speak longs to the Chitome. It is by his in another place. It is death to re-power that the universe is upheld priestesses of this fetich. They may peculiar disadvantages. But this absolute priestly

beg of him his gracious permission The priest obtains knowledge of to enter on their duties. The prayer what is to come by inspecting the is never granted in the first instance, entrails of victims, or by revelation the Chitome obliging them to wait He may, at his his pleasure until they have backed pleasure, predict a favorable or an up their petition with a respectable unfavorable issue for an enterprise; amount of gifts. At length he comes and thus may put a stop to measures forth out of his palace, sprinkles the of which he disapproves. It is to him suppliants with water, strews dust also that the fetich makes known his upon them, and orders them to lie on wishes as to what he would have their backs upon the ground. He done; and then the priest can for then treads several times on their ward what enterprise he will. "It is bodies, to signify that they are his servants; and exacts from them an such is the formula in which the oath of implicit and prompt obedience deluded people. This exaggeration themselves in luck if the high-priest cially exemplified in the family of the fire, which he keeps ever burning. high-priest of Whida, and in the Chi- Such brands he sells for the healing tome of Congo. The Negro of Whida and prevention of disease. A portion fuse anything to the priests and but here, too, unlimited power has its For since the carry off for their fetich whatsoever universe is upheld only by the Chitome, will — cattle, men, treasure, and, were he to die, would undoubt-The high-priest rules supreme, the edly go to destruction, therefore the king being only the chief of his ser- Chitome must never die. Accordingly, when he falls dangerously sick. his successor forces his way into the palace, provided with a club and a halter; with the one or the other of which the Chitome is dispatched, as

^{*} Bastian, 91.

[†] Bosmann, 458 ff.; Des Marchais, II. 144, 153.

he himself may elect. Chitome, having been by this act of high-handed violence put out of the way, his assassin is now Chitome, (le roi est mort: vive le roi!) and the universe is safe.* The Chitome is himself a fetich: all other fetichpriests base their authority upon the fetiches they possess, as do those of Whida, for instance, upon the Holy Serpent. Among the Kramantees a priest's successor is always that one of his sons who has the courage to take out of his dving father's mouth certain kernels, and to put them at once into his own.

Since the priests, by their conjuring arts, can do what they please, the people, when want or calamity oppresses them, attribute all their woes to the malice of their spiritual rulers. If they can but make away with the assumed cause, they believe that the effect will cease: and thus the belief in the power of the priest, which before brought him only advantage, now turns to his injury. The princes of the Kaffirs put to death all the conjurers they can lay hold of, whenever the country is visited by an obstinate and dangerous epidemic.† Chiquites of Paraguay, having discovered that the priests do more mischief than good, exterminated them en masse. Still they continued in the belief that all diseases are brought on by magical arts. Lest, therefore, the people should be deprived in sickness of the assistance which used to be rendered by the conjurers the chiefs now practice the healing art, using the same forms previously used by the priests.‡ The extraordinary power wielded by the priests, makes them very bloodsuckers and tyrants; and the only remedy against their despotism is when the downtrod-

The old den people break their fetters, and take a fearful revenge. The arrogance of the priests of Whida led them to form a conspiracy against the king. now the people forgot that a priest's person is sacred: the magnates of the kingdom, with one accord, rose to defend their prince, and a general and bloody persecution of the guilty priesthood was commenced.*

But the influence of the priest extends not alone to great affairs but even to the trifling concerns of private life. A man cannot take possession of a hut until it has first been exorcised of the powers of evil by the For this purpose he must dwell in it for a season, purifying it by thurifications, and consecrating it to some guardian fetich.† In Congo he gives his sanction to marriage by giving to the pair two hens, to be dressed by bride and bridegroom respectively; that dressed by the bride to be eaten by the groom and vice versa.‡ When the wife finds herself enceinte she places herself and her unborn child under the protection of a fetich. "In Western Africa she makes an offering to the priest of a flagon of rum, and a certain quantity of cowries, and in return he fastens around her arm a bracelet made of the tail-feathers of a parrot." \$ "Between the 10th and the 12th year of their age the children are consecrated by the fetich-priest. The children to be consecrated assemble around the fetichtree of their neighborhood, and then the priest offers to the fetich a white hen, by cutting off its head and suffering the blood to drop on the ground. He then distributes the feathers among the children, who form a circle all round, and lights a fire to prepare the hen for the fetich. The fetich gets a small portion and the remainder is taken to the house of the priest. With shouts and songs they then proceed to the

^{*} Cavazzi, 1. 254. † Sparmann, R. nach dem Vorgebirge der guten Hoffmung im Jahre, 1772 (tr. from the Swedish). S. 198, 199. The Patagonians acted in like manner, on the outbreak of the small-pox: Falkner, p. 117; Barrere, Beschr. von Guiana, Götting, Samml, v. Reisen, 11.

t Lettr. édif. Nouv. Ed. VIII. 339-345.

^{*} Bosmann, S. 463 seq.

[†] Bastian, 78. ‡ Bastian, 88. *Cf.* Loyer, p. 152.

[§] Halleur, S. 29.

bathing place, where the priest for a long series of years. When he washes the neophytes and marks comes to life again, he begins to eat each with a white stripe. The cer- and drink as before, but his reason emony concludes with shouting and is gone, and the fetichman is obliged singing." • Education, such as it is, to train him, and instruct him in the is altogether controlled by the priests, simplest bodily movements, like a "Every year the priests assemble little child. At first the stick is the the boys who are entering the state only instrument of education, but of puberty, and take them into the gradually his senses come back to lorest. There they settle, and form him, and he begins to speak. As an independent commonwealth, un- soon as his education is finished the der very strict regulations, however; priest restores him to his parents. and every offense against the rules is sternly punished. The wound given in circumcision commonly? heals in one week, yet they remain in the woods for a period of six months, cut off from all intercourse with the outside world, and in the meanwhile each receives separate instruction how to prepare his medicine-bag. Forever after each one is mystically united with the fetich who presides ever his life. Even their nearest relatives are not allowed to visit the boys in this retreat; and women are threatened with the severest punishment if they be only found in the neighborhood of a forest containing such a boy-colony. When the priest declares the season of probation at an end, the boys return home, and are welcomed back with great rejoicings."† The children are subjected completely to the power of the priests, and the latter appear sometimes to give this power a highly mystical expression. Bastian thus recounts what he heard in Quindilu from the lips of an interpreter:

"In the country of Ambamba each person must die once, and come to life again. Accordingly when a fetich-priest shakes his calabash at a village, those men and youths whose hour has come, fall into a state of death-like torpor, from which they recover usually in the course of three days. But if there is any one that the fetich loves, him he takes into the bush and buries in the fetichhouse. Oftentimes he remains buried

They seldom recognize their son, but accept the express assurance of the feticero, who also reminds them of events in the past. In Ambamba a man who has not passed through the process of dving and coming to life again is held in contempt, nor is he permitted to join in the dance." * Bastian adds that the Batheniers of the Sheikh Al-Gebal, in Bamba, are subjected to a similar course of treatment.

Nor are adults exempt from the power of the priest. When the fetich demands the consecration of persons to his service these may be chosen, as in Loango, in the following manner: In that kingdom "annually a stated number of men, women, and children, 12 years of age, are dedicated by the chief of the Gangas to the fetich Maramba. These then keep a fast for several days in a dark hut, and are then dismissed with the admonition to observe strict silence for eight days. Torture is employed to test their resolution; but if this fails, and they refuse to open their mouths, the Ganga conducts them to the presence of the idol, and there making a crescent-shaped incision on the shoulder, requires them to swear. by the blood which flows from the wound, that they will be ever true to Maramba. He forbids them the use of certain meats, imposes upon them certain vows, and hangs around their necks, as a token of their consecration, a little case containing relics." † Persons thus devoted to

^{* 16. 30.} Cf. Waitz, I. 365.

[†] Bastian, Sz.

^{*} Bastian, 82.

[†] Ib. 86.

fice.*

tion; the methods of performing jug- Nbazi, were continually at war, begling tricks: the doctrine of souls cause they adhered to two different prudence, as we have seen,—a diffi- of the Caribs.† cult course of study for the dull brain The common people, of course, of the savage, who strives dumb-know nothing of fetichistic science. founded to grasp the profound The notions peculiar to that science thoughts, and the lucid definitions are as little comprehended by them of his Master. Thus, e.g., "the dis- as the nice points of dogmatic thetinctions between Spirit and Soul; ology are understood by the masses their relations with the body, their here. Hence the very terminology pre-existence and their future exist- of the savage savant is unintelligible ence are as nicely defined, as the to the savage layman. The feticeros functions of the three Spiritus famil- among the Negro tribes, as also the iares in Cornelius Agrippa."† As Angekoks of the Greenlanders are is ever the case when the mind is said to have a language peculiar to plation of one object, the priest, who great part, unintelligible to lay folk.‡ is ever engaged with his fetich, en- Even our common people do not conception of the thing. He origi- ed. The Dakota priests use a penates a multitude of new fetiches, culiar language; the words are those and proposes them for the veneration of the common language of their of the common people, who take nation, but employed in a sense dif-them up greedily. He elaborates dis-ferent from that commonly given to to study minutely this dogmatic theology of the savage: but we must not expect to find here anything like logical consequence; for the savage, even though he dogmatize, is still cun leur dieu, c'est pire que la diablerie de a savage, and consequently his most elaborate system will be simply no system. As was to be expected, the ment, etc. various systems of Africa and Amer-

the fetich are, according to Halleur, ica differ very widely from one aninviolable: "They may do what they other. Of course also the adherents please, and may take what they wish: of the different schools do not reduce it is death to refuse them anything." their controversies to a courtly war The only drawback is that every year of words, as is our custom; they prea few of them are offered in sacri- fer to demonstrate their theses by hard knocks. Such debates are not The priests are the Sages. Their infrequent, and many a skull is science expatiates over the entire cracked in the heat of argument. field of fetichism and gives the rules Thus, during Cavazzi's stay in Confor the preparation and application go, two schools of doctors, the Maof fetiches; the formulas of incanta- cusa-Matamba and the Ngulunguand spirits and the rites of worship, systems of medication.* Similar dis-Finally, their science embraces a putes divided the doctors of the Abiknowledge of history and of juris- pones, as also the piaches (conjurers)

constantly occupied in the contem- themselves, which is entirely, or in larges and develops the primitive understand the language of the learntinctions and definitions, classifica- them. The chiefs also use this estions and systems: in his hands the oteric language, in order to keep the popular belief assumes scientific common folk out of their secrets.§ shape. It cannot be uninteresting In New Zealand, Tahiti, Hawaii and

^{*} Cf. Bastian, 202.

i Dobrizhofer, H. 84; Du Tertre, H. 386: S'il arrive, qu' une personne invite plusieurs Bovez (pioches) et qu'ils fassent venir cha-Chaumont car ces diables s'entredispu-tent, et se disent mille injures, et même, au dire des Sauvages, s'entrebattent si rudo-

[‡] Römer, S. So ff.; Cranz, 273; H. Egede (Bishop of Greenland), Beschr. von Grön-

land, S. 122. C. Bastian, 153.

§ Rigg's Grammar and Dict. of the Dakota lang. Washington, 1852. Cf. Waitz.

^{*} Halleur, 32. † Bastian, 83, Aum.

language—the priests use this lan- from Portuguese influence, and perguage, though they now understand mits no foreigner to enter his banza.

it only imperfectly.*

fetich science, the priests are "usually attended by a number of disciples, who prepare the fetiches, and who expect to succeed their masters." "Women who have long been barren, or who have lost their children, are wont to dedicate to the service of who "usually conceals the mysteries the fetich the unborn fruit of the of his worship in some remote cavern, womb, and to present to the village but who also reserves to himself some he is accustomed to gain the requi-similar mystic fraternities are found. site degree of spiritual exaltation; and in later years he instructs his after a noviceship and probation of pupil in the art of understanding, from one to ten years. When the whilst his frame is racked with con- candidate has given evidence of his vulsions, the inspirations of the de-fitness for promotion, by his observmon, and of giving fitting responses ance of protracted fasts, by the perto questions proposed." † The Sha- formance of the frantic dances, by the mans, too, have their disciples: and violence of his convulsive paroxysms, Negro priests receive fees for instruc- and by drinking tobacco-juice, he is tion in their magical arts.‡

its possessors men of redoubtable power, is kept a secret among themselves. It is only for the Initiated. Having thus doctrines in common, and being attached to one system, the mutual protection and defense, and priests constitute a society apart, a fraternity; an order, whose secrets are known only to the initiated, and with unrelenting hate,† The Dakota whose mysterious power inspires the uninitiated with fear and terror. Such secret associations of priests are found in the organized priestly classes of Cabende and Loango. \$ "To the fetich-system only in Bamba. king of Bamba, who was once the generalissimo of the kingdom of Congo, now lives in an almost maccessible

New members are admitted only advanced by due degrees to full mem-This priestly science, which makes bership. Among the Caribs, the disciples of the Piaches receive full consecration as priests only after they have attained the age of 30 or 35 years.

> The brethren form an alliance for their fidelity to one another is assured by the fact that the apostate is pursued Indians have similar associations, whose mysteries consist of dances known only to the initiated.‡

The barbarous style in which these mysteries are celebrated, and instruc-South of Congo, we find a complete tion conveyed to the candidates, may be seen from the account which Bastian gives of the Yagas: "So soon as the death of the Yaga at Cassange became known throughout the country, the people and the Maquitas gathered around his corpse, which was

Mangareva we find also a sacred mountain district, entirely isolated Here is found one of those systems of To propagate the knowledge of religious mystery which exercise so fearful an influence along the western coast from Cameroons as far as the Gambia." The central object in this system is the Grand Fetich, already mentioned, who lives in the heart of the bush, perfectly inaccessible to all, priest the new-born babe. He exer- localities lying near the highway, so cises it, at an early age, in those as to remind terrified wayfarers of his wild dances with deafening drum- power as often as they see the tokens accompaniment, by means of which of his occupancy." * In America too

^{*}Thomson, Story of N. Zealand, Lond, 1859, I.80; Chamisso, 46; Moerenhout, 273; Voy. aax iles du grand ocean. Par. 1837, I. 484. C. Waitz, V. 2, 226 ff.

[†] Bastian, 85, 100.

¹ Cavazzi, II. 220, I. 204.

[§] Bastian, Sr.

^{* 1}b. 82, 50. † Vide Carver, p. 272; Charlevoix, 363; Du Tertre, H. 367 seq.; Biet, HI. IV. 386, 387;

Lafiteau, I. 336-344. ‡ Keating, I. 283.

seated on a high throne, arrayed in where his throne is to stand, and work the feather-ornaments proper to a on the palace begins. When it is prince, and holding in its hand the completed, the new Yaga shows him-Rilunga. They begged him to name self to the people, who receive him roarious music, the spirit of the de- of the third day the prince (Yaga) ceased entered into the representative summons the magnates to his resi-of the family of the Tendallas, who dence, and then takes place that banwas lineally descended from the quet, of which we have already made brother of the founder of the kingdom, mention, where by partaking in comand, in the ecstasy of wild inspira-mon of human flesh they are bound tions, guided his hand to select the to one another by an inviolable fe-Chosen One out of the entire assembly. tich." * At once all the priests surrounded the Yaga-elect, and carried him off into religious mysteries of the various orthe gloomy recesses of a distant ders and secret associations of the forest, into which a layman could pen- priests are held in the highest veneraetrate only at the cost of his life. In tion; but they lay most stress upon the mean time Magnates attended to the art of conjuring spirits. Schoolthe funeral rites of the dead Yaga, craft mentions three such associaand after breaking out a tooth, tions, the Jossakeed, the Meda (Mewhich was regarded as something day, Mide) and the Wabeno: the secholy, they immured the body together ond of which is best known. "To with two of the favorite wives of the deceased, in a sepulchre previously ent tribes and tongues: all are addrenched with the blood of a boy and mitted without distinction to the asa girl. The new Yaga, while receives sembly (of the order) provided they ing instructions in the fearful myster- are acquainted with the Meday rities of the Catondos, was obliged to ual.† The chief festival of the order witness dark deeds of murder, so is the Medawin, which, however, the that his heart would not shudder at Sioux keep in a manner slightly difthe contact of death, and was taught the poisonous and medicinal properties songs sung at this festival are preof herbs. At the end of one year he served in symbolic pictures which entered upon his office. All workmen form a secret written language. These who understand anything of the build-writings can be deciphered only by er's art assemble to erect for him a the initiated, who are acquainted with palace. But before the work can be the true signification of the pictures commenced, blood must be shed, to and who know the songs by heart, the give firmness to the foundation-stone, symbols serving merely to suggest and the one who is chosen to be the their general tenor. The right of victim has his eyes and mouth care- membership in this association, which fully bandaged, lest a look or a cry is granted even to young children, is should excite the compassion of the conferred in a hut specially built for Yaga—for the slightest emotion of the purpose. On this occasion ahuman feeling would break the spell, priest makes an oration upon the and bring down upon his head the goodness of the Great Spirit; then wrath of his forefathers. His breast follows a procession of the members is steeled against pity; the head as in a circle, with their medicine-bags, it is struck off, rolls into the stream, and the candidate receives in the and the Yaga walks four times through face a puff of air from out of the the pool of blood which has flowed bags. The power of the conjuringfrom the victim, and washes therein his feet and his whole person. He then plants his banner on the spot, Nation. Lond. 1850, p. 168.

Amid the din of up- with loud cheering. On the evening

Among the American Indians the

^{*} Bastian, 150-154.

[†] Copway, Traditional Hist. of the Ojibway

devil thus prostrates him as though cerning which the most direful stories he were dead: but another puff re- were current among the common stores him. He then gets a medicine- people) the new adept was for the bag of his own; with it is conferred tirst time suffered to quit the gloomy on him the power of a Meday; and torest and to see the light of the sun, he at once puts his power to the test, he made himself known to the Masters touching others with the medicine- of the Society as a Brother by executbag, which causes them to fall pros- ing the figures of the Belli dance. trate. When the candidate is a child. He then took the brotherhood's "oath he is set before each of the medicine- of vengeance."

siders himself secure. The effect craft and other secret misdeeds. tiveness of the police of Old Calabar, administered by the Egboords, has sometimes led European police-captains to seek admission into the lower grades; † for all, even slaves, may can enter only the inferior grades. On the great festival of Egbo, masked men go about the streets, armed with whips, drag offenders forth from their hiding-places and inflict punishment. On that day women are not permitted the order is felt along the Gold Coast and the Slave Coast. The terror of the Vehmgericht of the Belli-Paaro was spread throughout the old kingdom of Quoja. Now members were adopted only every twenty-five years," unhallowed eyes looked on the spirits who surrounded him there. When after three years of novitiate (con-

bags in turn, and he gets a new name. We cannot determine whether, or in addition to his own, which he ever how far, the African Purra and Semo after bears as a member of the soci- associations are of a religious nature. Waitz gives this description of them: The power of these secret association Among the Mandingoes, especially tions is so great that, like the Vehm-those in the region of Sherbro, the gericht, their judgments and their Veis, the Timmanis and other tribes, penalties, which are ever executed the Purra association takes a very with promptness and vigor, affect not important part in the administration alone their own members, but the of justice. The Purra is a secret sopeople in general. They constitute ciety, the nature of which is still oban invisible police, that with its thou-scure: so much however is known, sand eyes beholds every hidden thing, that it is a kind of secret police, a and in the face of which no man con-secret tribunal, punishing theft, witchministers go masked, and surprise and seize culprits by night. Naturally this occasions grave abuses, still no man durst make any resistance. The society requires absolute obedipurchase admission, though the latter ence from its members and is made up of warriors divided into sundry classes. If any one by chance comes to a knowledge of their secrets, he is adopted a member by a terrible ceremonial, and threatened with death, should be divulge anything. to quit their houses. The power of parallel lines tattooed on the body are the insignia of membership. The Purra has also been described as a common federal tribunal having jurisdiction over different nations, and whose judgment is invoked in case of quarrels. The Purra then acts as to keep up the association. Those judge or as mediator, and taking sides who were cited to appear before this with one or other of the parties, detribunal appeared thickly veiled, for a cides the quarrel. The Semo among fearful death awaited whosoever with the Susus appears to resemble the Purra, and to have a similar purpose. The Semo has a sacred language peculiar to itself. Though Caillie * has written a long account of this associa-

^{*} Schoolcraft, V. 430 seqq.; Kohl, I. 59, II. 71; Waitz, HI, 215.

[†] Bastian, 294. 1 Holman, f. 392.

^{*} Caillie, Journ. d'un Voy. a Temboctou, etc. (1824-28), I. 228.

of its true nature." * (Waitz, 11, 135.) among our heathen forefathers.

6. Fetichism among Non-Savages.

The human mind, in its various stages of progress, must always exhibit phenomena answering to the degree of few occasions when the feather was development to which it has attained, wanting, he had no success at all. He Even where a higher grade of intelli- will in the future, for luck, plant such gence generally prevails, still the a feather in his hat. Now the hunter lower grades will not be entirely ex- will have his faith in the potency of cluded, for the whole community will his fetich increased in proportion as not have reached the same degree of his assurance of good luck, which he development, individuals differing gets from the sight of the feather and respect. Even in civilized countries his confidence in himself, and so adds no better than Bushmen or Negroes videntur. Some people take an umκατ έξοχην and the fetich-worshiper as just this: the former is simply, or at least primarily, a fetichist, but the latter is primarily something different. though secondarily he is a fetichist. He would be as thorough a fetichist as the other, were it not that he is something else besides a fetichist, and so his energies cannot all tend to fetichism. Our next chapter will

tion, still we know absolutely nothing treat of the fetichism which prevailed

Here are a few examples. Suppose a hunter has repeatedly met with extraordinary good-luck in the chase when he wore in his hat a conspicuously beautiful feather, and that, on a from one another very widely in this his conviction of its efficacy, increases you will find those who are essentially to his dexterity: possunt, quia posse in point of mental culture, albeit in brella with them, so that it may not outward seeming they differ as widely rain. In short we need but run over from the savage as our world differs the list of our popular superstitions, from that of the Bushman. The dif- in order to see how far the fetichistic ference between the fetich-worshiper apprehension of object still endures amongst us. Thus, for instance, on he is found in civilized countries is every page of the Appendix to Grimm's "Mythologie" we meet with fetichism displaying all its characteristic features. I select only the following instances:

> Useful fetiches: "If a man finds a horseshoe, or a piece of one, he is in luck.* He who takes in a large sum of money must mix with it a quantity of chalk, and then wicked people cannot take it back. (The fetich as caretaker.†) If a man eats a raw egg on Christmas morning, he will be able to carry heavy loads. Swallows' nests and crickets bring good luck to a house. If one finds a treasure, he must not cover it over with any garment used to cover the body, or he is a dead man: he must cover it with a pocket handkerchief, or with a crust of bread. Chase a hen thrice around a table, and mix with her food fragments of wood from three corners of a table, and she will stay at home. Fetich medicine: Rain water will make children speak at an early age. A pulled tooth is to be driven into a

^{*} Winterbottom. 180 seqq.; Golberry, R. durch das W. Afr. (1803) I. 56; Laing, 88 seqq.: Forbes, Six Months in Sierra Leone (Ger. Tr.) S. 84. Cf. Cæsar, B. G. VI. 13, 14: Fere de omnibus controversiis publicis privatisque constituunt; et si quod est admissum facinus, si cædes facta; si de hereditate, de finibus controversia, iidem concernunt, præmia pænasque constituunt. . . . Hi certo auni tempore in finibus Carnutum, que regio totius Galliæ media habetur, considunt in loco consecrato: huc omnes undique, qui controversias habent, conveniunt, eorumque decretis judiciisque parent. Si quis aut privatus aut publicus eorum decreto non steterit, sacrificiis interdicunt. Hæc pæna apud eos est gravissima... Druides a bello abesse consueverunt, neque tributa una cum reliquis pendunt; militiæ vocationum omniumque rerum habent immunitatem. These Druids were also soothsavers, physicians, conjurers, etc. Cf. Tacitus Ann. XIV. 30; Hist. IV. 54; Germ. 7, 11: Plin. Hist. Natur. XXX. 4.

^{*} Grimm, D. M. Anhang. Nr. 129. † 16. Nr. 5.

low, and drive it into the aching tooth find on its back a straw: put the straw until the blood comes, and then restore the twig to its place, drawing the bark over it, the toothache goes away. The head of a mouse, bitten off from the body, or cut off with a knife of gold, assists a child in teething, when it is hung about his neck. If one is troubled with catarrh, let him drink a glass of water with a threepronged fork. To cure debility in children: their urine is to be caught in a new pot: into this is to be put the egg of a coal-black hen bought; without chaffering: the egg to be pierced with nine holes; the pot, wrapped in a linen cloth, to be buried after sunset, in an ant-hill that has been discovered without search, If any one afterward find the pot, he must not make any use of it, else he will take the complaint that was buried. Maleficent fetiches: It is unlucky to walk over sweepings. Fetich oracles: the grave-digger's mattock rattles when a new grave is to be dug. Charms and counter-charms: If one goes out of doors unwashed, he is easily bewitched. Never throw into the street hair that has come out in combing, or you will be always in danger from witchcraft. Old women often cut out a sod a foot long that has just been trod by their enemy: this they hang up in the chimney, and so cause their enemy to pine away. The whirlwind is caused by witches: throw a knife into the whirl and you will see them at work. Witches can produce rain and thunder: they can also raise winds to carry off linen that is bleaching, and hav that is curing in the sun. In the springtime when the cattle are first driven afield, axes, hatchets, saws and other iron implements are placed before the door of the barn; thus the cattle are guarded against witchcraft. When water is bewitched, and will not boil, place under the pot three sticks of different kinds of wood. A shirt spun by a girl of five to seven years of age is a

young tree, and covered with the bark. sure protection against witchcraft. If the tree be cut down, the ache comes your beast has been bewitched, go to bace. It you break a twig off a wil- the stable at midnight, and you will in a sack, call in the neighbors and give the sack a thrashing; the sack will then be seen to swell and the witch will utter a shriek. Our ancestors did not compare very favorably with savages: their treatment of witches was more cruel than the ferocity of any savages toward their conjurers; and the blazing fires of the Christian middle ages, lighted for the torturing of witches, were supposed to be the ministers of a Holy Spirit, blasphemy as this cannot be imputed to the savage. When we call to mind the rude and undeveloped state of intellect in which fetichism takes its rise, what a fearful light is thrown by these medieval phenomena upon the intellectual status of our forefathers whom it is still, in some quarters, the fashion to praise and to admire! Shall I recount the pitiable absurdities, the gossip of the dairy and of the spinning-room, which were held by judges who pored day and night over their musty folios evidence sufficient to justify them in tearing away from the bosom of their families, in torturing and putting to death with every circumstance of cruelty, weak old women, idiots and children? Need I recite the frantic harangues which called for the kindling of fires in the market-places of universitytowns, and which occasioned the death of hundreds of thousands of innocent victims? As late as the year 1783 the portentous gleam of these fires was to be seen in Germany." * And who is to assure us of their final extinction; and that there are not beneath the ashes concealed fires, still living and full of danger, which may burst forth in flames afresh, carrying desolation throughout the land? For we still have mighty fetiches, and these act in Europe precisely as they do in Africa.

Plutarch relates that the Dictator

^{*} Bastian, 93.

Sulla had no such faith in any god, for people, when a saint withheld his as in a little image of Apollo which he constantly wore upon his breast. Suetonius says that Nero was Religionum usquequaque contemtor, præter unius deæ Syriæ. Hanc mox ita sprevit, ut urina contaminaret, alia superstitione captus, in qua sola pertinacissime hæsit. Siquidem icunculam puellarem, cum quasi remedium insidiarum a plebeio quodam et ignoto muneri accepisset, detecta confestim conjuratione, pro summo Numine trinisque in die sacrificiis colere perseveravit: volebatque credi monitione ejus futura prænoscere.*

The amulet differs from the fetich in this, that here the sensible object is not regarded as possessed of a power of its own (for then it would be a fetich), but only as the representative symbol of some higher power, which is the real efficient cause. The amulet therefore points back to a train of ideas which lie behind it: the fetich stands upon its own merits. Thus, for instance, in the Arab's amulet—a verse from the Koran on a strip of parchment—it is not the parchment and the ink that produce the effect he desires, but the omnipotence of Allah, of which the writing is regarded as the sensible sign. But yet the people, who wear such amulets as a protection against the powers of evil, very readily forget this distinction, confound the two things, and regard the sensible object as the efficient cause. Thus the amulet becomes a fetich. The Mohammedans of Senegambia write the potent verse on a tablet, then they wash off the inscription, and Thus again, so drink the water. soon as the working of miracles is associated with the image of a saint, that image of necessity becomes a fetich; and will receive from its worshipers precisely the same usage, which other fetiches receive at the hands of savage devotees. In mediæval times it was no uncommon thing

assistance in time of need, to renounce his service, to break his image in pieces, or to cast it into a river or a swamp.* As late as the middle of the 17th century some Portuguese sailors pronounced dire against St. Antony of Padua during a calm: they would have bound him hand and foot, were it not that some one came to his assistance. At length they set his image on the tip of the bowsprit and thus addressed it, kneeling: "S. Antony, be so good as to stand there ever till you give us a favorable wind, to continue our voyage."† A Spanish ship's captain fastened a little image of the Virgin to the mast, saying she should remain in that position until he got from her a favora-The Neapolitans once ble wind.‡ called S. Gennaro vecchio ladrone, birbone, scelerato, because he had not checked a stream of lava. They even cudgeled the saint. Some Spanish peasants, during a protracted drought, threw the Virgin into a pond, and called her witch, wench, etc. | When Russian peasants would do anything unbecoming in the presence of the saints' pictures, they cover the latter with cloths, to prevent their witnessing the deed. A Russian peasant, who had harvested a poorer crop than his neighbor, borrowed from the latter his holy image, and mounted it on his plow, expecting thus to have better luck.** To this day Russian peasants whip saints' images; to this day images of the Virgin are put in prison by Italian peasants, precisely as the Negro does with his fetiches, when he would punish them, or keep them from harming him.††

^{*} Suet. Nero, c. 56.

[†] Bastian, 197; Waitz, II. 187.

^{*} Meiners, I. 181.

[†] Della Valle, Yoy. VII. 409; Meiners ub.

[‡] Frezier, Rel. du Voy. de la Mer du Sud, p. 248.

[§] Kotzebue, Reise nach Rom. I. 327. ¶ Spanien, Wie es ist. 1797, H. 117.

[¶]I. J. Straussen's Reisen, Amst. 1678, S. 84 ** Weber, Verändertes Russland, 1721, II 98.

^{´††} Waitz, II. 185.

CHAPTER V.

VARIOUS OBJECTS OF WORSHIP.

Anything may become a fetich, other nations, An intelligent Dakota once said that mans and Gauls, as also the Celts, "there is nothing that the Indians do who, according to Grimm, not worship as a God," For the stone-worshipers par excellence, did Negroes of the Gold Coast, Wongs the same.‡ (objects of worship) are, first, the gods fana aut ad petras, vel ad fontes, vel dwelling betwixt heaven and earth, who ad arbores luminaria faciat, aut vota beget children, die, and come to life. again. These deities are divided into tation given by S. Elov in a sermon.§ distinct classes, which get their names from the functions they discharge, and tires of condemning the "votum these names are taken from the vocab- vovere ad lapidem, vel ad quamlibet ulary of Negro state-craft. But then Wong is also, i, the sea, with all its contents; 2, rivers, lakes, fountains: 3, certain enclosed areas of land, and all termite-hills; 4, the otutu (a little heap of earth raised over a buried sacrifice) and the drums belonging to a quarter of a town; 5, certain trees; 6. certain animals—the crocodile, ape, serpent, etc., while other animals are only sacred to the Wongs: 7, images carved and blessed by the fetichman; 8, certain combinations of cords, hairs, bones, etc.†

1. Stones as Fetiches.

All Nature is endowed with life: the savage mind apprehends even stones anthropopathically. The Lapps transfer to stones the domestic relations of Father, Mother and Child: they even fancy that stones roam about at night, after the manner of the "Roving Bell."‡ It is not only in Ovid's Metamorphoses that men are changed into stones; the natives of the Marianne Isles have a belief that the first Man was metamorphosed into a rock, which is still pointed out as an object of veneration. The worship

stones is to be found in all quarters of the globe; but in Africa it prevails TETICII- most among the Gallas.* Men swear by stones and by rocks; for instance, the Somali in Africa,† not to speak of The ancient Ger-Nulius Christianus ad reddere præsumat,—such is the exhor-The church in the middle ages never rem." Offerings were made to stones by anointing them with oil, blood or wine. ¶

> The pagan inhabitants of Canaan worshiped stones in this manner, ** De Brosses, in his work in the Batylia shows that all the great nations of antiquity, not excepting the Greeks and Romans, worshiped stones. inhabitants of Phara worshiped 30 Τοί τους σέβουσιν οί Φαρείς, square stones. writes Pausanias, έκάστον θεού τινος όνομα έπιλέγοντες. Τὰ δὲ ἐτι παλαιότερα καὶ τοῖς πάσιν Έλλησι, τιμάς θεων άντι αχαλμάτων είχον άργοι Σινοι.†† In a higher state of intellectual development, when the notion of gods gained the ascendency, it was very easy to establish relation between some god and a stone, which previously had been worshiped on its own account. The Sacred Treasure of Jupiter at Tegea was a rough quadrangular stone. Meteoric stones were a special object of worship, being often regarded as incarnate rays of

^{*} Waitz, III. 191.

[†] Bas, Missionary Magazine, 1856, H. 131; Waitz, H. 183.

[†] Requard, Voy. en Lappland, in Voy. au

N. VI. p. 321. § Le Gobien, Hist. des Isles Marianes. Paris, 1700, p. 197.

^{*} Rochet d'Héricourt, Voy. dans le roy. de Choa. Par. 1841, p. 167.

[†] Burton, First Footsteps in E. Afr. Lond. 1856, p. 113.

¹ J. Grimm, D. M. S. 370. § Vita Eligii by Andoenus Rotomagensis (d. 683 or 689), pub. by Achery, Spicileg, t. v. Paris, 1661, p. 215-219; Grimm, D. M. Anh. S. XXX.

Grimm, D. M. Auh. S. XXXIII. XXXIV. XXXV.

[¶] Meiners, Gesch. d. R. S. 150 ; De Brosses, Les Pierres Bætyles, 110, 123, 133, 135.

^{**} Cf. Merx, s. v. Abgötterei, in Schenkel's Bibellexikon.

^{††} Pausan, VII, 22, VI, 22.

the sun.* Such ἀγάλματα δῖιπετῆ (Bætylia, abadiı) are the Stone Symbol of Diana, at Ephesus; of the Sun-God Elagabal, at Emissa, in Syria; of Mars, at Rome, and the Black Stone, the Kaaba, at Mecca.

Many savages regard stones as the children of Mother Earth,† for they have also an anthropopathic conception of the earth, and so worship her. According to Dapper, the King of Alé and his grandees used to hold council together, previous to a war, in a pit dug in the midst of the forest. The deliberations at an end, the pit was carefully filled up again, lest it should betray their secrets. The Iroquois and other Indian tribes believed themselves to be the children Earth: they would never sit upon the bare ground, but always first covered the spot on which they sat, with a little grass, or with a branch of a tree.‡

Nam neque de cœlo cecidisse animalia possunt

Nec terrestria de salsis exisse lacunis: Linquitur, ut merito maternum nomen adepta Terra sit, e terra quoniam sunt cuncta creata. Lucretius de R. N. v. 793 seqq.

2. Mountains as Fetiches.

Mountains are for many reasons objects of fetichistic worship. one moment their summits are veiled in clouds, the next they are radiant in the fierce blaze of the sun; out of their caverns the winds issue forth. and down their sides are poured the torrents which fall from the rain-clouds enveloping their heads. All these phenomena are regarded by the untutored mind of the savage as produced by the agency of the mountain itself, and he accordingly pictures to himself the latter as endowed with a human will, and acting from human motives. In this respect he is a poet. He does not imagine any such thing as a Spirit of the mountain, a being merely inhabiting it; no, it is the

Mountain itself, this tellurian mass that he worships. It is true, the fetichist sees in it something more than a heap of earth and rock. For him the mountain forms the clouds, and sends the storms. But why? From such motives as move men to action: now he is terribly wrathful; anon he is all smiles. So his worshipers will study to appease him, and for this purpose will make offerings to him.

The worship of mountains is found among several Siberian tribes, among Negroes and American Indians.** The Ural was worshiped by the na-We must tions dwelling around it. distinguish between this fetich worship and that respect paid to mountains, on the ground of their having once been the seat of a certain cultus, or the home of some god. In that case it is not the mountain but the god that is worshiped: and of this kind of veneration we do not treat here. As Jacob Grimm did not study fetichism in its psychological aspects, he doubted whether men ever could pay adoration to a mountain, and discredited all accounts which state that such a worship exists. I extract from his Deutsche Mythologie the passages which have a bearing on this subject, as so many proofs for the reality of Mountain-fetich worship.† " Many were the Sacred Mounts and Hills: but yet they do not appear to have been worshiped directly, but to have been venerated merely on account of the god who inhabited them (Wotan's and Donner's Berge). Though Agathias speaks of λύορι and φάραγγες (hills and ravines) as being objects of worship, without any mention of any other object, we may suppose that he was an inaccurate observer, and that he failed to notice a worship of water or of fire having its sanctuary on the mountains. We might look for the worship of mountains among

^{*} Bastian, Die Seele, u. s. w. S. 9.

[†] Ibidem.

[†] Tanner, Mémoires trad. pas E. de Blosseville. Paris, 1835, I. 250; Waitz, III. 184.

^{*}The Yakutes, Sarytschew, I. 27; the Burats, Georgi, 318; Negroes, De Bry, VI. 21, Römer, 65; Peruvians, Acosta, 206; Mongolians, Isbrand, p. 111.

[†] Deutsche Mythol, S. 369.

the Goths, in whose language fairguai used to be cast into a pond which was signifies mountain, it the explanation thought to be the messenger of all the is correct. Dietmar of Merseburg then entreated to go abroad with the gives an example of Sclavic mountain-pitcher and purchase water of other worship (p. 237): Posita est autem ponds and streams : on returning home hac (civitas, i. e. Nemzi, Nimptsch) in it was expected to bring sufficient pago Silensi, vocabulo hoc a quodam water to irrigate all the fields.* The monte, nimis excelso et grandi, olim spring is regarded as the seat of all sibi indito: et hic ob qualitatem suam the river's life. et quantitatem, cum execranda gentili- come near it.† The Negro savage tas ibi veneraretur, ab incolis omnibus believes that the presence of the white nimis honorabatur. The commentatraveler may enrage the River Spirit, is the Zobtenberg."

3. Water as a Fetich.

Jacob Grimm gives a very full account of the worship paid to Water in into the water little pieces of wood the spring, the brook, the river, and neatly carved, and tobacco, and exthe sea, and describes the religious cuse their temerity by saving: "Be observances of the people, as they not angry with us for sailing over thee, "offered their prayers, lighted lamps, as though we had forgotten our reveror made their sacrifices on the banks ence for thee. We are not without of the stream, or on the margin of the reverence, but the Russians oblige us spring;" and these usages he traces from the remotest antiquity down into tion." The ancient Russians worthe Christian era.† "The pure, flowing, bubbling, evanescent water; the flaming, glowing, dying fire, the air, Scythians) and the Wolga-streams on perceptible, not to the eye, but to the which they depended for their existear and to the touch; the Earth, ence. The ancient Mongolians would which they all revert: these have river-worship.** According to Agathever been regarded by man as sacred ias the Alamanni too worshiped rivand worshipful, and through them he has been wont to bestow a solemn consecration upon the customs, the pursuits and the events of his life. Their action upon the entire universe being steady and constant, the untutored mind pays them worship for their own sake without any reference to a deity residing in them." The anthropopathic apprehension of rivers, springs, and the sea is found among all savage nations. Many of the populations on the banks of the Niger regard its tributaries as the wives of the main stream.‡ In Acra a pitcher

we have already * given of this word rivers in that country: the pond was Strangers must not tors are of opinion that this mountain or do him hurt, or even deprive him of life. Rivers are an object of worship not only in Africa, but also in America∮ and in Northern Asia.∥ Whenever the Kamtchatdales sail across a dangerous whirlpool they east against our will to make this navigashiped the Don, the Dnieper (worshiped as the Borysthenes by the which maintains all things and to appear also to have been given to ers: Δενδρα τε γαρ τινα ίλασκονται και ρείθρα ποταμών και Σόφονς καὶ φάραχρας, καὶ τοίτοις ώσπερ όσια δρώι τες.†† Herodotus makes a similar statement as to the Persians:

> * Allg. Gesch. der R. IV, 180; Waitz, Anthr. II. 177.

^{*} Deutsche Mythol, 116.

[†] D. M. 326-340.

t Clapperton, Tageb. seiner, zweiten R. p. China. Lond. 1804, p. 509. 414.

[†] Laing, p. 310; Bastian, 59 f. "In 1641 Hans Ohm of Sommerpahl built a mill over the brook: and as the succeeding year proved disastrous to the crops, everybody assigned as the cause, the profanation of the sacred brook, which was indignant at having been checked in its course. So they attacked the mill, and utterly destroyed it." Grimm, D. M. 338.

¹ Cavazzi, I. 363.

[§] Charlevoix, p. 348. Georgi, Reise, S. 318; Steller, S. 21.

Steller, S. 19.

^{**} Wuttke, I. 214. Cf. Barrow, Trav. in

^{††} Agath. 28. 4.

Ες ποταμόν δε ούτε ενουρέουσι ούτε εμπτύουσι,] ου χειρας έναπονίζονται, ούδε άλλον ουδένα περιορέουσι, άλλα σέβονται ποταμούς μάλιστα. * Seneca says of the Romans: Magnorum fluminum capita veneramur: subita et ex abdito vasti amnis eruptio aras habet. Coluntur aquarum calentium fontes: et stagna quædam vel opacitas vel immensa altitudo sacravit.† The honor which the Hindus pay to the Ganges does not belong to this category. The Hindu apotheosis of Nature is pantheistic, not fetichistic. "O Mother Earth, Father Air, Friend Fire, Brother Water, I now in all reverence and for the last time address my prayers to you: I am about to enter into the Supreme Brahman, for owing to the surplus of good works which I have laid up during my intercourse with you, I have attained to immaculate knowledge and have so cast aside all power of straying from the Truth." ‡ We must however here remember that in the hands of the common people the amulet easily becomes a fetich.

The natives of Sumatra and of the Philippines worship the sea, as well as those of Africa. By the ancient Peruvians, before the time of the Incas, the sea was regarded as the supreme deity.§

The Kaffirs make offerings to a stream, of entrails, animals and millet, to secure immunity against disease. Roman naval commanders offered sacrifice to the sea before setting sail.¶ Even in the last century Christian Greeks made offerings to rivers; and Turks regarded it as perfectly natural to throw overboard Christians and Jews, in a storm, to appease the wrath of the sea.** A tempest having broken

up the first bridge of boats, Xerxes ordered three hundred lashes to be given to the Hellespont, and chains to be cast into it. Again he presented an offering on a dish of gold, and this, together with a golden goblet, he threw into the waters of the strait. Herodotus is undecided whether this was done in honor of the Sun, or to appease the offended Hellespont.*

4. Wind and Fire as Fetiches.

"The hurricane (called by the Congo Negroes, 'the Horse of the Boonzie') is regarded as a ravening, devouring monster-a giant like the Jötunns—whose wrath may be appeased by casting meal into the air. I regard this," says Jacob Grimm, "as a primitive superstition." † "In the popular traditions of Russia the four winds are the sons of one mother, and in the ancient Russian song of Igor the Winds are addressed as Lords. and are said to be the grandsons of Stribog, whose divine nature is implied in his name. In like manner in Oriental tales and poems the wind is represented as speaking and holding converse." Tof the Payaguas of S. America Azara § says: "When storm overturns their huts or casas, they take a brand from the fire, and run against the wind for some distance, threatening it with the brand. Others strike terror into the storm, by pummeling the air soundly." Asia the Tcheremis used to make offerings to the winds. In ancient times the same custom was in vogue among the Greeks and Romans, as well as other nations.¶

In every quarter of the globe we meet with the worship of Fire, that "mysterious element, ever restless

^{*} Herod. I. 138.

[†] Senec. Ep. 41; Cic. de N. Deor. III. 20. † Otto Böhtlingk, Indische Sprüche, B. II.

S. 97 (1 Aufl.).

[§] Bosmann, S. 168; Atkins, Voy. to Guinea, Brazil and the W. Indies. Lond. 1737, p. 119; Sneugrave, Nouvelle Relation de la Guinée. Amst. 1735, p. 69; Marsden, 256, 258.

|| Alberti, S. 72.

|| Cicero, de N. Deor. III. 20.

** Shaw, Travels, or observations relating to

sev. parts of Barbary and the Levant. Lond. 1757, p. 333; Guys, Voy. littéraire de la Cic. de. N. Deor. III. 20.

Grèce. Par. 1776, I. 466; Kleemann, Reisen in die Crimm. H. Wien, 1771, S. 113. * Herod. VII. 34, 35, 54. † D. M. 363. Cf. S. 360–368.

[‡] D. M. 361. \$ Azara, II. 137.

[|] Rytschkow, S. 86.

[¶] Herod. VII. 178, 189; Pausan. II. 12;

Power of Nature," "Our Northern kindling it, sacrifice was offered." student lights his lamp with a match. The Sioux called themselves Potospreads out before him the volumes watomie, which means, we make fire, t written in the past, and traces in and, like the Ojibways and other Hephastus the root Phtha, or com- nations, they kept up an undying fire, pares Vesta, Behram and Agni with as the symbol of their nationality. one another. As I take it, this is According to Adair the word Cherokee commencing at the end and not at the is derived from Cheera, fire. beginning. The student does not Muscogers gave to fire the highest consider that friction-matches are a Indian title of honor, grandfather; § very recent invention, and that an- and their priests were called "Fireciently the production of fire was a makers." The chief ceremony of their very difficult process: as we may still principal festival, "the First Fruits," see in the case of savages who often was the Renewing of the Fire, a perspend hours in getting fire.* The formance which, among the Mexicans, lucifer which has become for us a was repeated every 52 years. The thing so familiar that we never stop old fires were then all extinguished, to think about it, was once one of the and it was only after they had most mysterious of wonders, a wonder practiced purificatory rites and fasted which must have all the more forcibly for the space of three days that the impressed men's imaginations, inas-people supposed they had received much as it not alone promoted man's the consecration which was needed comfort, but even made life endurable, for the kindling of the new Fire. especially in cold climates. Hence we can understand why the Sacred Lightning and Thunder is closely al-Fire always burned in the shrine; why lied. Perhaps among all the phenomfaithful guardians were appointed to ena of Nature the worship of Thuncare for it, and why this worship of der and Lightning is the most widely Fire was recognized in public legisla diffused. It is found among the tion, as well as in the concernments rudest populations—the aborigines of of private life." † "Fire, like water, Brazil, for instance. The Betchuana is regarded as a thing of life;" ‡ and worship the rain as it falls from the by many savage tribes it is held to clouds. As their country is arid and be an animal. Το πτρ θηρίον έμφυχου, barren, and their great curse drought, says Herodotus, describing the beliefs they hold Rain to be the Giver of all of the Egyptians (III. 16), and good. They begin and end every Cicero has, ignis animal. (De N. solemn discourse with the word Puhla, Deor. 3. 14.) Among the Damara, rain, and they have the greatest venone of the rudest of savage tribes, eration for their Rain-makers.** who can scarcely count beyond the number three, and to whom the institution of marriage is unknown, the daughters of the chiefs are charged with the duty of keeping up the Sacred Fire, for Vestals are to be found in several religious systems, the duty of keeping up a sacred fire being an easy one, and best suited for women. When a family separated from the tribe and emigrated they took with them a brand of the sacred fire.

ever consuming, ever brightly flaming. Whenever, the fire went out, on re-

With the worship of fire that of

In some countries it is not the Rain itself but a Rain-giver that is worshiped, not the Thunder, but a Thunderer, who ranks above all other spirits by reason of the dread power of his voice and the awful, death-dealing force of his shaft, the Lightning.

^{*} Cf. Grimm, D. M 341 ff.

[†] Bastian, 343.

[†] D. M. S. 340.

^{*} Anderson, Reise in S. W. Afrika bis zum Ngami. Leipz. 1858, I. 239.

[†] Keating, L. 89.

[‡] Schoolcraft, H. 138. § Waitz, III. 208.

[|] Ibid 208. |¶ M. v. Neuwied, S. 144.

^{**} Thompson, I. 180; Campbell, 2d Journey, 230.

The Damara regard as their supreme worms, and even from Pestilence, not deity Omakuru, the Rain-giver, who dwells in the distant North.* Some of the Damara even claim for themselves descent from the Rain, while others would have only birds, fishes and worms reckoned as Rain's progeny.† In the island of Ponapi the supreme Being vents his wrath in the thunder: ‡ and in the northern Sagas Lightning is called God's Beard-speech, for when Thor mutters words behind his red beard, the lightnings flash through the sky. Zeus shakes his ambrosial locks, and the heavens are moved. In the isle of Morileu navigators adored the rainbow, or perhaps the spirit of the rainbow.

After the mind has attained some degree of development, the old objects of worship still remain, but they are then subordinated to the new, and pass for the symbols of the latter. As Zeus was thus connected with lightning and thunder, so among the Israelites Jehovah was connected like a man. with fire, as his appearance in the Burning Bush, in thunder and lightning on Sinai, and in the Pillar of death of the one who plucks it out. Fire, clearly shows. relation with the sacred fire of Vesta manipulation of the surrounding through the column of flame which shot up from Etna.

5. Plants as Fetiches.

"Heathendom regarded all Nature as living," says Jacob Grimm. This view of Nature is very clearly expressed in the northern myth of Baldr. To ward off from the beloved God all danger, Frigg exacted an oath from Earth, from stones, water, fire, plants, beasts, birds,

to injure him. Only the young and and tender Mistletoe was by the goddess thought so weak and powerless that she did not require of it the oath. But when afterward Hödur, at the prompting of Loke, with this plant compassed the death of Baldr, all creatures wept-plants, beasts and men.

69

If inanimate stones are regarded as living beings, we are not to be surprised if plants are also thought to have souls, for their whole process of development, in growing and blooming, in bearing fruit and in withering, has many analogies in human life. This anthropopathic apprehension of plants is very evident in the belief entertained in popular superstition as to the powers of the magical plant Mandrake, which is mentioned under the name μανδραγόρας by Hippocrates, Xenophon, Plato, Theophrastus and others. It is described as shaped When it is plucked from the earth it utters a cry, a groan of pain so terrible as to cause the Vulcan came into But if it be displaced by a special earth, it must be then washed in red wine, wrapped in white and red bandages of silk, bathed every Friday, and vested in a fresh, white garment at each new moon. If questioned it will make known future and hidden things tending to the welfare and prosperity of the questioner, and if a piece of gold lies beside it through the night there will be found in the morning two: but its good-nature must not be imposed upon, however. The water in which it has been washed is to be poured upon the doorsill, or upon the cattle, and so the house and the stock are preserved from ill-luck. If barren women drink of it, they will be blessed with progeny. If a man wears the mandrake about his person he will always in suits at law defeat his opponent.*

This mandrake is of human origin,

^{*} Anderson, I. 237.

[†] Rh. Missionsber, 1852, S. 235; Hahn, Grundzüge einer Grammatik des Herero. Berl. 1857, S. 152.

[†] Michelewa y Rojas, Viajes científicos en todo el Mundo (1822–42). Madrid, 1843, p.

[🕯] V. Kittlitz, Denkwürdigk auf einer R.n. d. russ. Am., Mikrones. und Kamtsch. (1826 ff). Gotha, 1858, H. 105.

^{||} D. M., S. 371.

^{*} Meiners, II. 600.

springing from a chaste youth's council of the prince meet beneath semen fallen to the ground. But on the other hand, men also spring from plants. There is a Micronesian story to the effect that Tangaloa's daughter, while yet the earth was parched and barren, assuming the form of a snipe alighted upon the earth, and made her home on a rock. From the rock a creeping plant sprung forth, and as this died away it produced at first worms, then men.* Some of the Damara tell of the descent of man and the larger beasts from a sacred tree, which they worship. In the German Song of Alexander (Alexanderlied) by Pfaff Lamprecht, "megede rehte vollencommen "-perfectly beauteous maidens —are spoken of as springing from flowers.

" Si giengen unde lebeten Menschen sin si habeten."

As they spring from the flowers, with them they perish:

" Die blumen gare verturben Unde die sconen frowen sturben."

Daphne was changed into a bay-tree. In speaking of the worship of plants, trees and woods, I do not give it Ovid's interpretation:

Stat vetus et multos incædua silva per annos, Credibile est illi numen inesse loco.

On the Coral Islands of Polynesia the crinum and the dragon's blood are held sacred. The Davaks of Borneo worship also the dragon's blood, together with the pancratium amboinense.‡ Generally, however, it is large trees that are worshiped, such as the mighty adansonia. In Whidah the sick apply to the sacred trees, for the cure of their complaints.§ the Zaire the public and the domestic

* Turner, p. 244.

the holy ficus religiosa,* a tree which plays an important part in the history of religion. In Congo it is planted in all the market-places, as an object of worship: its bark has fetich-craft; and any injury done to the tree is punished as a crime. The Somali worship certain trees,† and the Galla specially the wanzey-tree, though in the south of Shoa they regard the wodanabe-tree as their national Palladium, their "great Fetich." ‡ This same tree-worship is found in N. America and Northern Asia, for instance, among the Ostiaks, Wotiaks and the Tsheremis. The savages of Acadie worshiped an ancient tree on the sea-shore. This tree having fallen root and branch into the sea, they continued to worship it as long as any part of it remained visible. sacred tree of the Longobardi was the so-called blood-tree, and the ancient Germans worshiped chiefly the oak, though they had also great reverence for the alder: I nor were the ancient Jews, Arabs ** or Persians †† without their fetich-trees. The goddess Ashera was originally worshiped under the form of a simple stock of "The Diana of the isle of wood.‡‡ Eubæa was a piece of unhewed wood, the Thespian Juno of Cytheron the trunk of a tree, she of Samos a simple slab of wood, as was also the Delian Latona; the Carian Diana was a cylinder of wood, and the Pallas, and the Ceres at Athens were rough stakes, sine effigie rudis palus, et informe lignum." §\$

As single trees, so also whole groves, with their green, umbrageous aisles, their mystic gloom, and the tuneful rustling of their leaves would

[†] Ovid, Amor. III. 1. 1. ‡ Gerland, in Waitz, V. 2. 10.

[§] Bosmann, H. 64, 323, HI. 153; Des Mar-

chais, II. 132.

^{*} Tuckey, p. 366. † Waitz, H. 523.

[‡] *Ib.* 518.

[§] Rytschkow, S. 161.

^{||} Charlevoix, p. 349. ¶ Grimm, D. M. S. 374. ** Merx, in Schenkel's Bibellex. Art. Aschera and Astarte.

tt Meiners, L. 152.

tt Merx, ubi sufr.

^{§§} De Brosses, p. 151.

the childlike fancy of the savage, arbores facere aut ibi candelam sen The rustling of the leaves was regarded 'quodlibet munus deferre, arborem coas the language of the trees: thus it lere, votum persolvere, consult Grimm, was that the sacred oaks of Dodona D. M. Anhang, XXXIII, XXXIV. spoke, and oracles were published founded on these words of the oaks. Athene, according to Apollodorus, fixed on the prow of the Argo a voiceful piece of wood from one of the Dodonian oaks (φουῆεν φηγου τῆς Δωδωνίδος sirror), and the wooden ships of the Phæacians were possessed of souls (τιτνσκόμεναι ορεσί νήες).*

Among the ancient Germans single trees as well as entire forests were held in the greatest reverence.† Such sacred groves were not to be entered by the profane · such sacred trees were not to be stripped of their leaves or branches, or to be hewed down. Compare sacrum nemus, nemus castum, in Tacitus, and Lucus erat longo numquam violatus ab ævo, Amongst the sacred in Lucan.‡ groves of German lands were the forest of the Semnones, the nemus of Nerthus, the Sclavic lucus Zutibure and the Prussian grove Romowe. Amongst the Esthonians it was held impious to break off a twig in a sacred grove, nor would they even pluck a strawberry within its shadow.\$ Long after the introduction of Christianity the violation of trees was sternly punished in Germany. || Of the Esthonians at the present day we have this account: Only a few years ago, in the parish of Harjel, they made offerings (opferten) under certain trees on the nights of S. George's, S. John's and S. Michael's day, they killed a black hen. According to the superstitious belief of the Wends of Lausitz there are forests which annually demand a human sacrifice (as do many rivers) and one man must annually vield his life. Tor an account of the

* Odyss. VIII. 556.

¶ Grimm, D. M. ub. supr.

make a most profound impression on ecclesiastical prohibitions, vota ad

6. Animals as Fetiches.

Christianity, that religion which sets the highest value upon the human individual, places a great abyss between man and nature. She isolates man and places him infinitely above nature. Christianity therefore regards the animal as in every respect far inferior to man. The religions of India regard Nature as only the outward aspect of Brahma; for them therefore the eternal Being is visible in the beast as well as in man. Consequently in the beast the Hindu recognizes a brother, of equal rights, and of like rank with himself. But the ytew which the savage takes of the animal world is different from both of these. He commonly regards the animal not simply as his equal, but as a superior being. the Negroes Waitz says: "In their view man has not his definitive place at the summit of Nature, and above the animals, but the latter appear to them as enigmatical beings whose nature is involved in obscurity and mystery, and whom they rank now as above themselves, again as beneath."* "The Indians," says the same author, "regard the animals as man's ancestors and kindred and ascribe to them a human understanding and human principles of action, or even sometimes a higher intelligence and superhuman capacities. Those animals, however, which neither inspire them with fear nor display any notable sagacity they despise." † understand why the savage views the animal creation thus, we need but know the nature of his intellect and the conditions of life in which he is placed.

As the understanding reaches only as far as its objects, it will always be

[†] Cf. Grimm, D. M. 371 ff.

[‡] Pharsal, III. 399.

^{§ &}quot;Ut umbra pertingit." Grimm, R. A. 57,

[🛚] Grimm, Weisthümer, III. S. 309, 18, IV. 366, 15, 699.

^{*} Anthrop. II. 177.

[†] Anthrop. III. 192.

callarged as the number of these in- would be apprehended as standing on creases. The greater a man's intelli- an equality. And as the savage can-gence, the wider is the line of distinct not attribute to the beings around tion between him and beings pos-him any internal properties save those sessed of none at all, or of a less de- of which he already has consciousgree than himself. But so long as ness, he is forced, as we have seen, the number of his objects does not to form anthropopathic apprehensions exceed that possessed by animals; so of objects. The more closely these long as they are the same in kind as beings resemble man in their nature those pessessed by the animal, and liabits, the sooner will be attribnot more numerous, in other words, ute to them the self-same motives so long as his world is that of the an- which excite himself. In fact his imal: just so long the intellectual conduct differs very little from theirs; condition of the lowest savage will not alone does he closely resemble the beast.

the objects exhibited to it in the un-sion of a mountain, a river, or a tree, derstanding. Hence, so long as these he cannot help regarding the animal objects are no higher than those of as of his kindred. In the eastern part not have any higher aims than has novelty to the natives, and they at

the will of the beast.

jects. From the lack of objects of a performances.* higher nature, we have shown that his will must be concentrated on gard all, or at least some animals as those which are purely material, his equals, he will even assign them a great interest is to satisfy his hunger, he values little, as he knows but little his lust, or his desire of repose.

status and the range of his desires, boys, like the old giants in the heroic some little progress, differs but little above everything else. The great from the animal, while at a lower chief who with a blow can split the stage he scarcely differs at all. The skull of his antagonist: whose power-Hence there is hardly any difference claws of a bear, who lays hold of a between the savage and a highly-or- man and tears him in twain, who ganized animal. But as he differs so when hot coals fall upon his body in little from them, it is impossible for sleep, is not awakened, but treats him to regard himself as something them as gnats, who every day dequite distinct from them. His pur-vours an entire sheep, and drinks a suits and those of the animal are skin of fermented and distilled milk identical, their wants, their motives without being drunk: such is the are the same; the animal is the coun-savage's ideal of true greatness. But terpart of the man; therefore the nowhere does he find such bodily savage regards the animal as his strength and agility, such fiery courequal, as his kindred.

the savage and the animal are de tacto scarcely distinguishable, they

not be distinguishable from that of them, he is in many respects perfectly identical with them. Hence, as he The will can be exerted only upon must have anthropopathic apprehenthe animal, the will of the savage can- of South Africa Monteiro's ass was a once commenced to ask the donkey As we have already seen, the sav- what he thought about things, always age has a very small number of ob- regarding the ass's doings as human

But not only must the savage re-Hence his only stimulus, his only superior rank. Intellectual qualities about them: but on the contrary, like Thus as regards his intellectual all men of uncultured minds, like the savage, even where he has made legend, he prizes bodily strength world of the animal is his world also, ful voice can be heard at enormous and their interests are the same, distances, whose nails are like the age and uncurbed fury as he does in Hence, for the simple reason that wild beasts, the lion, tiger, wolf, bear,

^{*} Zeitschrift f. allg. Erdkunde, VI. 407.

elephant, etc. They are the realiza-| Vilmar's remarks on this subject are tion of what he might be himself: apposite: * "The root of this lethey are the ideals, the prototypes whose names he delights to assume, and which he chooses as his Totems, ity of primitive man; in the deep and and his guardian spirits. They in kindly instincts of a sound and vigordeed are the mighty ones of his coun- ous savage race. As they conceive a try: his weapons are often insuffi- cordial and even passionate attachcient to protect him against their at ment for Nature in her varying tack; he is at their merey, and lives phases: exulting with her in the mild-as it were by their favor. Then the ness of the spring time and in the gencolossal size of some of these beasts, or the majesty of their presence-the demon fascination of their gleaming eves, must make on the savage a profounder impression than upon us, inasmuch as these are the very properties he is best acquainted with and which he values most highly.

Not only does this bodily strength inspire him with respect for the beast, as a being superior to himself; he attributes to him, furthermore, a higher degree of sagacity and circumspection. The unerring instinct of the animal: the cunning of the fox, the dog's acuteness of sense, the ingenuity of the beaver in constructing his house, of the bird in building its nest, of the bee in forming the comb: all this is in sharp contrast with the poverty and helplessness of man in the savage state. He knows nothing of the price the animals have to pay for the power they possess, nor reflects that they too do learn, and suffer anxiety and pain. Again the service rendered to him by several animals—as the ox, who with all his strengt his still so patient—disposes the savage to regard the beast as a being worthy of respect, and by no means as the pattern of stupidity.

This exposition of the relations between the savage and the brute which is based on the results of observation, is also confirmed on every side by observation. We find the best illustration of this in the Animal Legend (Thiersage), as it is found among igin only when men were in a very primitive state, and men and animals consorted together intimately and with a childlike ingenuousness." Aufl.

gend" (Reynard the Fox), says he, "lies in the guileless natural simplicial heat of summer, sharing the melancholy of autumn, and in winter giving themselves up to the torpor which reigns all around: as they attribute to these different phases of Nature an individuality like their own, with like emotions, and develop these conceptions in the form of grand myths, in which the creatures of imagination are represented now as kindly and gracious, again as awful and majestic, as they appear respectively in Siegfried and Brunhild: so, very naturally, they form a very close and affectionate attachment for the brute creation, their nearer neighbors and their closer kindred. Nay, more, they admit them to intimate association with themselves, as though they were truly and essentially, and not by adoption, or by imaginative fiction, members with themselves of one society. It is the pure, innocent delight which the savage takes in contemplating the brute creation—their lithe figure and flashing eve, their courage and ferocity, their cunning and agility; it is his knowledge of their habits derived from the daily experiences of a life lived in common with them that gave rise to these fables of animals, to the animal-epic. But such life-experience can be obtained by man, only when he studies the animal with a calm and affectionate interest: when he contemplates its inmost nature, its most recondite characteristics; when he not alone shares himself the nature of our Germanic ancestors, "a form of the animal, but also in turn gives to composition which could have its or-the animal a share in his own human faculties of thought and of speech,

^{*} Vilmar, Literaturgeschichte, I. 244 ff. 8

and attributes to the animal's actions his slaves and his friends, to give him the same importance, the same intel-their aid; and lo! after a short time. ligent direction, which he claims for the work was finished. Then said his own. This mutual commerce of the Termite to the Spider: "If you had tion of the Thiersage. The brute of would have been laid out long ago." the legend is not a mere brute, of nature quite diverse from man's, and having no psychic communion with him: but no more is it a man disguised in the form of a brute. In the former case, the brute could never be the object of poesy, or at least would not furnish the true material of poesy, action. In the latter case, such legends would be only tedious allegory. The charm of the legend lies precisely in this dark background where the brute and the man have so much in common; and on this background we must not suffer the lights of our better informed understanding to fall, else the very essence of the legend vanishes."

There is no form of poetry, as Meiners thinks, more agreeable to the uncultured mind than the fable; and in point of fact fables are extremely numerous among savages. Their ultimate basis is the anthropopathic apprehension of the brute creation, the dark background of which Vilmar speaks.* Lessing supposes the object of the fable is to give palpable shape to a moral truth. Even the Hottentots have a large collection of animal-fables, with the recital of which they amuse one another. Negroes, too, "when they come together to smoke tobacco, or to quaff their palm-wine, entertain one another by telling fables, and they dress up every passing occurrence in the garb of legend or fable. 'The Spider,' to give one example, 'the Spider would lay out a plantation, and set to work about it vigorously without delay. But he had not got the ground ready, when the seeding-time was gone by: and the same thing occurred year after year. The Termite who would build him a palace, having noticed this, called together his neighbors,

Brute and Man is the absolute condi- but done as I did, your plantation I once, in talking with a Negro named Quan, reproached his people with having killed off all the elephants for the sake of their ivory, and his answer was this: 'No, we have done no such thing. The clephants knew that the white man wanted the ivory, but they would not part with it without having something in return: so they went down to the coast, and sold their tusks for brandy. Having drunk the brandy, they were now left without anything-neither tusks nor brandy. So in their drunkenness they became desperate and all committed suicide. and that is why there are no longer elephants in Aquapin." *

" Man in his lowest stage of development considers himself and the brutes as almost alike, the difference between the two being, to his mind, rather external than internal and essential. The beast has a soul as well as man, and the soul of the beast is substantially the same as that of man. Men and animals belong to one race, and are identical with one another in sundry points."† How easy is the transition from man to animal, and vice versa, is shown in ancient German legends. "As in later times, after the grim legends of antiquity have been discredited, men become wolves and wolves are transformed into men, as we see in the belief in the Werewolf: so in primitive times men became dragons." The ancient ballads tell of Siegfrid's father and of his sister Signe, how they were transformed into wolves, and assumed all the savage instincts. This belief in "Marafilnas," the lycanthropi of the ancients, extends through Abyssinia, Senegambia and all eastern Negro lands as far as the Somali. Especially workers in

^{*} Cf. Waitz, II 180.

^{*} *Ib.* 343. † Wuttke, I. 107.

[†] Vilmar, I. 121.

iron are supposed to transform them- India, Philippine and South-Sea Isselves at night into beasts, and then lands.* In the East India isles it is to feast on human flesh. In Fassokl believed that sometimes women give the Marafilnas are even organized birth, not alone to boys and girls, but lesce in Grecian mythology.

vails throughout many of the East others to the raven, III the Osages to

into secret guilds.* The Indians in also to crocodiles, and the latter are the interior of Oregon regard beavers never killed, but carefully placed in a as human beings, metamorphosed by crocodile pond. Many of the natives the Great Spirit, in punishment of have their crocodile relatives, duly actheir disobedience.† In Mexican knowledged, and these they never inmythology, too, we find instances of jure.† Hence the savage does not such transformations. Xapan was, for hold it to be a disgrace to be deadultery, changed into a black scor- scended from beasts; on the contrary, pion, and Tlahuitzin, the woman, into they boast of such descent. The a red scorpion; and Xaotl was chang- Tlascalans used to say that the men ed into a grasshopper, for having over- who escaped in the Deluge were transstepped the powers given to him by formed into apes, but that they by dethe gods.‡ Lycaon was by Zeus trans- grees recovered the use of reason and formed into a wolf. A number of speech.‡ Kadroma, a she-ape, wife of German myths speak of the mutual the ape Cenresi, was the ancestress of transformations of men and serpents.§ the whole population of Thibet. The The Centaurs and the Sirens show Thibetians are proud of this dealso how readily man and beast coascent, and of their ape-like ugliness of feature, which they trace to We have already seen from the in-their ape ancestors. Some of the stance cited in Chapter II. (the Are- Orang-Benua trace their origin back kunas) that there is nothing to prevent to white apes. | According to the the greatest familiarity between the Aleutians \ and the Chippeways ** all savage and the wild beast. The Ma- men are descended from the dog, and lays of Malacca, and the Orangs con- hence the first men had canine paws. sider the stronger animals as their own Other N. American Indians say that equals—especially the shark, whom a woman that lived with a dog was they regard as a friend and a brother, the mother of the human race.†† The he being, like themselves, a pirate. Delawares suppose themselves de-A similar view is taken of the tiger scended from the eagle; ## the Tonka-and the crocodile, and this view pre- way trace their origin to the wolf, §\$

^{*} Waitz, II. 180, 504.

[†] Cox, Ross, The Columbia River, 3 ed. Lond. 1832, 1. 231; Dunn, Hist. of Oregon Terr. Lond. 1844, p. 317. † D. Francisco Saverio Clavigero, Hist.

antigua de Mejico, I. vi. p. 240 : Entre otras contaban que habiendo emprendido un hombre llamado Japan hacer penitencia en un monte, tentado por una mujer, cometio adulterio: por lo cual lo decapito immediatemente land en volkenkunde. Batavia. X. 415. Jaotl, a quien habian dado los dioses el encargo de velar la conducta de Japan. Este contento Jaotl con aquel castigo, perseguia to the North Sea (Germ. tr.), p. 281. †† Schoolcraft. V 682 transformada en escorpion rubio, y el mismo encargo, quedó convertido en langosta. A (in Bar and Helmersen, Beitr. zur Kenntn. la verguenza de aquel delito atribuyen la des russ. Reichs. Petersb. 1839) 100, 111, 93; proprietad del escorpion de huir de la luz y Holmberg, Ethn. Skizzen üb. d. Völk. des de esconderse entre las piedras.

[§] Grimm, D. M. 394 ff.

^{*} J. Hawkesworth, Account of the vov. undertaken for making Discoveries in the S. Hemisphere by Capt. Byron Wallis, Carteret and Cook, 1773. Lond. III. 758; Marsden, Valentyn.

[†] Hawkesw. III. 756, 757. ‡ Clavigero, VI. p. 225. *Cf.* Garcia, Origen de los Indios.

[§] Klaproth, Tabl. hist. p. 131. Borie, in Tydschr. voor indische taal,

Sarvtschew, R. in Sibir, H. 164.

^{**} Waitz, III. 191.

^{§§} Wrangell, Statist, und ethnograph. Jaotl, por haber traspasado los limites de su Nachrichten über die russ. Besitz. in Am.

[|] Schoolcraft, IV. 305.

married to the daughter of the beay- often attributes a higher intelligence er: the Kavuse, Nez Percés, Walla- than he claims for himself. A very Wallas, and some other tribes are de-intelligent. Indian seriously assured scended, according to a tradition held. Parkman that he held the beaver and by them all, from the various mem- the white man to be the most ingenbers of the beaver; † some S. Ametoious of people. * Especially the white ican aborigines from a fish, others beaver, an animal which appears to from the toad, still others from the exist only in fable, is represented as rattlesnake.‡

human origin. In Acra monkeys,— Brazil, monkeys are possessed of a hu-called "servants of the fetiches,"— man understanding. It is believed by are supposed to be men, whose creatmany savages that monkeys can speak, tion miscarried; while among the but refuse to do so, lest they should Serracoless and on the Island of Mad- be forced to work.‡ Dogs, too, can agascar they are supposed to be men speak, and in primitive times did who were metamorphosed on account speak; but since the time when the of their sins.\$ The Manitu of the descendants of the god Kutka sailed Iroquois, to reward a man who, though, by them without replying to their insore pressed by hunger, had abstained quiries, they have proudly refused to from human flesh, transformed him speak any more. It is only strangers into a beaver, and such is the origin that they bark at now, or rather it is of the Beaver totem. A Missouri In- only strangers to whom they now addian was changed into a snake that dress the question, Who are you? had the power of speech. | Owing to Where are you going? So say the this close relationship beasts under- Kamtchatdales.§ stand the language of man, and vice that the chameleon and the salamanversa. In Bornu this mutual under- der are messengers sent on important standing of languages ceased when a errands to man by the god Umkulunman betraved a secret to a woman, \(\) kulu. In our legends and stories, too, ani- Atnas, Kenai and Kolush, ¶ suppose mals speak, as did Diomed's steeds.

plants, enjoy the privilege of immor- was only a vast waste of water: tality.** The souls of men may pass above this was poised a monstrous into the bodies of animals, and ani- bird, the beating of whose wings was mals' souls into men's bodies. Ani- as thunder, the flash of whose eye mals which root the bodies of dead was as lightning. He swooped down men out of their graves thus make the souls of the deceased their own, devouring soul and body at once. This belief is oftentimes the foundation of the savage's reverence for animals, as is the case among the Kaffirs, who make an offering to the wild beasts of the bodies of the dead.††

* Wilkes, IV. 467, apud Waitz, 111, 345. † Azara, Voy. H. 138. † Garcilasso, Commentar. reales, L. 18, 21.

†† Waitz, H. 177.

a serpent transformed into a man, and ' To the larger beasts the savage endowed with superhuman powers.† Conversely, several animals have a On the Senegal, in Kordofan and in The Kaffirs say The Chippeways, like the the world was called into existence The souls of animals, and even of by a bird. In the beginning there and touched the sea, and at once the earth came to the surface and floated on the water.** Birds passed for beings gifted with extraordinary wisdom among the ancient Germans, Greeks and Romans.†† The American In-

† Jones, Traditions of the N. Am. Ind.,

2 ed. Lond. 1830, HL 69.

^{§ 76, 178.} § M. v. Neuwied, II, 230. Vision Native I Kolle, African Native Literature. Lond. 1854, p. 154.

^{**} Steller, S. 269; Georgi, Beschr. S. 383.

^{* 76.} HL 193.

[†] Raffenel, p. 90; Rüppel, R. in Nubien, Kordofan, etc. Frankf. 1829, S. 115; Bos-mann, H. 243; Bowdich, p. 195.

[§] Steller, S. 280. | Waitz, H. 410.

Waitz, 111, 179.
M. v. Neuwied, 11, 221. tt Cf. Grimm, D. M. S. 388 ff.

telligence than even the beaver or Koran.* the rattlesnake, and treat him with From what has been already said the utmost reverence, call him "grand- not only will the fetichistic veneration father," and even incense him with of animals be placed in a clear light, tobacco-smoke - a solemn offering, but it will also appear that such venwith which oftentimes the morning eration is necessarily incident to savsun is greeted. A legend represents age life. And it is the animal itself the owl as one of the greatest bene- in propria natura, and without any factors of mankind, and he is consid- reference to any divinity he may repered to be the king or chief of the resent, that is worshiped. "The snakes.* In Mexican legend it was bear that is worshiped as a god is a dove that taught the dumb sons of regarded as a true bear: the snake Cojcoj, the Mexican Noah, to speak that is worshiped as a fetich is no diverse tongues so that they could mere passing theophania, but is ever not understand one another.† On a real snake. † It is not to be questhe mountain Kaf lives the monstrous tioned that in the higher stages of bird Anka, endowed with reason and development the worship of animals. speech, known to the Persians under is connected with the cultus of spirthe name of Simorg, and in the Tal- its; and then the animals are considmud called Jukneh. The books of ered as consecrated to the gods, and the Zends tell of four sacred birds are on that ground worshiped: but which are the guardians of the earth that is beside our purpose. and of everything that lives thereon. The elephant is in Africa regarded Japanese mythology represents the as a superior being. The Kaffirs, out bird Isi Tataki as the cause of the of respect to his understanding, will propagation of the human race; it not eat his flesh. And yet they chase was from him that the original divine this animal, saying at the same time, pair got their knowledge of marriage "Do not kill us, great chief: do not rites. Chaldaic legend speaks of trample on us, great chief." ‡ In four worshipful beings, half man, half Dahomey he is the "great fetich" of animal, which came out of the sea the nation. Though the Dahomans bank of the Euphrates near Babylon they must perform a long purificatory to give men instruction. The name ceremony after having slain one.\$ structed them in those things which pear seated on a white elephant, but are pleasing to God, and gave to that custom was abolished, for the ful in the joys of Paradise, and they ever Europeans set snares to catch

dians credit the owl with greater in believe that the horse reads the

and made their appearance on the are allowed to kill the animal, still of the first was Oannes, and he in- In Siam the kings used once to apthem religion, laws, science, culture; elephant is as great a potentate as the while it was the business of the other king himself; and in him dwells a three to attend to the improvement kingly soul. He has been even inof mankind by a repetition of the les- vested with imperial dignities. | The sons given by the first. The Turks lion was worshiped in Arabia. The and the Arabs say that the cat meditiger in New Calabar ** and in the tates upon Mohammed's law, and East India islands. In Sumatra the that she will share with the faith- natives give the tigers warning when-

^{*} Parkman, Hist. Conspir. Pontiac. Lond.

^{1851,} II. 135; Jones, III. 69. † Clavigero, Lib. VI. p. 225: . . . tubieron muchos hijos, pero mudos, hasta que una paloma les communicó los idiomas desde las ramas de un arbol, pero tan diversos, que no podian entenderse entre si.

^{*} Arvieux, Mém. mis en ordre par le P.

Labat. Par. 1735, III. 223, 252.
† Wuttke, I. 82.
‡ Kay, Trav. and Researches in Kaffraria.
Lond. 1833, p. 125, 138.
§ Forbes, p. 9; Kay, p. 341.

Meiners, I. 221. ¶ Ibid. S. 192.

^{**} Holman, I. 371; Köler, 61.

75 FETICHISM.

them: and we read of Tiger-cities, the Spirit of Earth holds the pre-emwhere the houses are thatched with women's hair. In Acra, too, where almost each village adores as its fetich some animal peculiar to itself, the hvena is regarded as sacred.* At the Cape of Good Hope they will not kill the leopard, even though the animal devour women and children. It is thought in Dahomey that those who are torn to pieces by leopards are peculiarly blest in the next life.† The principal object of worship of the West Africa negroes is the wolf. A soldier belonging to a Danish fort, who was not aware of the sacred character of these animals, killed one of them. The indignant natives demanded of the Fort Commandant a reparation of the offense; and he was compelled to yield to the demand, as the negroes threatened to quit the district if he refused to comply. If satisfaction were not made the murdered wolf would take a fearful revenge on them and their children. Accordingly the Commandant had the wolf's body wrapped in linen cloths, and provided gunpowder and brandy for the solemn rite of atonement. The natives having, during the grand obsequies, fired off the powder and drunk the brandy, the wolf was propitiated and avenged.‡ Some negroes worship goats, sheep and rams.§ In New Calabar the horse is worshiped, and in Wadai this animal is the subject of many wonderful stories, and of a multitude of superstitious beliefs. Indeed the horse, as also the ox and the cow, have been regarded as sacred the world over. The religious views of many Indian tribes with regard to animal-fetiches are very curious. "The highest worship is paid to the Onkteri Gods who created the earth and man, and who instituted the medicine-dance. In form they resemble huge oxen; amongst them

* Bowdich, p. 302; Monrad, 33.

† Forbes, p. 35. ‡ Romer, S. 273 f.; Des Marchais, I. 297. § Bastian, 82, 208. † Holman, Köler, II. ec.

inence, and has subject to him the serpents, lizards, frogs, the owl, the eagle, the spirits of the dead, etc. Another class of gods, sub-divided multifariously, is that of the Wakinvan, who are ever at war with the Onkteri, and who are principally destructive war-gods, though they possess also the creative power. them the wild rice and a certain kind of grass owe their origin. In form they bear a fantastical resemblance to birds, and their home is on a lofty mountain in the west. The eastern gate of their dwelling is guarded by a butterfly, the western by a bear, the northern by the moose, the southern by the beaver," * etc. The worship of the beaver is diffused throughout almost the whole of America.†

Among birds it is the owl which is most frequently chosen for a fetich,‡ and even among our Teutonic ancestors this bird, as well as many others, was esteemed sacred. \ Many ancient Arab tribes regarded the eagle as their Great Fetich, and by the Syrians the dove was worshiped. ¶

In Africa, especially in Bonny; and in the E. Indian Islands, in Sumatra, Celebes, Butong, and the Philippines the crocodile is the principal object of worship.** In performing this worship, the natives go down to the haunts of the crocodile, to the sound of music vocal and instrumental. and throw food and tobacco to the Nay, even in Celebes and in Butong tamed crocodiles are kept in the houses, †† probably because their presence is deemed lucky; and for this same reason, the Negro of Africa is glad when he finds these venerated animals dwelling near his hut without fear.‡‡ In Madagascar the cayman, the guardian deity of Little

^{*} Waitz, III. 190.

^{† 76.} III. 193.

[†] Supra. p. 77. § Grimm, D. M. 386–394.

Meiners, L. 192.

Senoph. Anab. I. 4.

^{**} Holman, Köler, Il. cc.

^{††} Hawkesworth, p. 757.

¹¹ Romer, 273 f.

Popo, is supposed to be an enchanted chieftain of old.* When the cayman takes any prey (so say the natives on the Senegal) he calls together his friends and kindred and counsels with them when the holiday is to be kept, for the distribution of the plunder. His most intimate friend is a bird, a kind of crane, which watches over him as he sleeps: and it is not permitted to kill this bird.†

In the E. India Islands,‡ as in Africa also, the shark is a mighty fetich along the sea-coast. Eels are worshiped in Cusaie and in the Marian In the Carolines the God Isles. Mani is represented as a fish.¶ Eap there are kept in a pond of fresh water two fishes of extreme age, but vet only a span in length, which always stand in a right line, head to head, without moving. If any man touch them, and they are made to stand at right angles with each other, an earthquake is the result."** Xenophon states that the ancient Syrians paid worship to fishes; †† and whoever ate of a sacred fish, his body was at once covered with ulcers, his bowels shriveled up, and his bones crumbled awav.‡‡

"Mysterious in its whole nature; amazingly agile though without limbs; strong and formidable though simple in form; of no great size and yet a match for the most powerful animals, owing to the instantaneousness of its attack; gorgeous in its variegated coat; silently and stealthily lying in wait for its victim, and then in an instant filling him with terror—the

the savage, and is by him regarded as a mighty being of a higher order." * In America, Africa and Europe serpents have been worshiped, oftentimes, indeed, as being possessed by the souls of the departed, but often also as actual fetiches. The reverence paid by American Indians to the rattlesnake was the means of saving the life of the Count von Zinzendorf (1742). The Cayugas, with whom he was staying, were about to put him to death, supposing that his presence was productive of ill-luck to them. Count was seated one night on a bundle of sticks, writing by the light of a small fire. Unknown to him a rattlesnake lav alongside him. When the Indians who were to take his life approached and observed the snake, they withdrew, firmly convinced that the stranger was of divine origin.† In Europe the Lithuanians worshiped serpents, kept them in their houses and made offerings to them: yet possibly they may have supposed them possessed by the souls of their departed kinsmen. We find mention of snakeworship as practiced by the Longobardi, in the Vita Sancti Barbati in "Acta Sanctorum." ‡ Herodotus speaks of this worship among the Egyptians.§ The guardian of the Athenian Acropolis was a living serpent.

■ But Serpent-worship finds its highest development in Whida, in Africa. The Egyptian Apis alone can compare for importance, power and sacredness with the marvelous serpent which once gave to the Negroes of Whida the victory over their enemies. This serpent, which never dies, is held so sacred that not even the king, but only the High-Priest, durst see him face to face. The sanctity of this one snake confers consecration and immunity upon all other snakes of the same species, which are naturally harmless;

^{*} Leguével, II. 223.

[†] Raffenel, p. 29, 208.

[†] Marsden, Hawkesworth, ll. cc.

[§] Holman, Köler, Il. cc.

[|] Dumont d'Urville, Voy. de l'Astrolabe. Par. 1839, V. 121.

[¶] Schirren, Die Wandersagen der Neuseeländer und der Maurimythus. Riga, 1856, S. 70.

S. 70.

** Gerland, af. Waitz, V. 2, 137; Chamisso,
Bemerk, auf einer Enldeckungsreise (1815–
18). Weimar, 1821, S. 132.

^{††} Anab. I. 4: έπι του Χάλου ποταμου πλήρη δ'ιχθνων μεγαλων και πραέων, οίς οί Σύροι θεους ενοιιζου και άδικειν οίκ είων ούδε τὰς περιστεράς.

¹¹ Meiners, L 193.

^{*} Wuttke, I. 82.

[†] Waitz, III. 192.

[‡] Grimm, D. M. 395 ff. § 11.74.

Herod. VIII. 41.

[¶] Bosmann, 458 ff.; Des Marchais, II. 153.

50 FETICHISM.

and it is a high crime to kill them, dance around the pits. On the morn-While Bosmann was in Whida, a swme-ing after the bridal night the girls are killed one of these snakes, and in pun-sent back to their homes; there these ishment not alone was the individual chosen maids have never been known transgressor put to death, but a gen- to give birth to serpents, but only to cral persecution broke out against the perfectly human infants. During the whole tube of swine. Indeed they would have been utterly exterminated had not the Serpent granted an amnesty. Each time the crown is put upon a new head, the queen-mother and the new king himself make a solemn pilgrimage to the temple of the serpent. In the court of this temple the faithful pronounce their prayers, and offer valuable gifts. In case there be no earthquakes or other great calamities, which would necessitate special offerings to appease the wrath of the deity. There is annually held a grand festival, when hecatombs are offered. Still the High-Priest may at any time demand, in the name of the serpent, offerings of valuables, herds, and even human victims; and he must be denied nothing. There is engaged in the service of the temple a numerous host of priests and priest-The snake's harem is well stocked with beautiful girls. Every year the priestesses, armed with clubs, go about the country, picking out and carrying away girls from 8 to 12 years of age, for the service of the god. These children are kindly treated and instructed in songs and dances in majorem gloriam of his Snakeship. In due time they are consecrated by tattooing on their bodies certain figures, especially those of serpents. The Negroes suppose it is the snake himself that marks his elect thus. Having received their training and consecration, which are paid for by the parents according to their means, the children return home; and when they attain their majority are espoused to the Serpent. The happy brides, tricked out in festival array, are brought by their parents to the temple. When night comes, they are let down by twos or threes into pits where, as the priestesses aver, the authorized proxics of the snake await them. Meanwhile the old priestesses sing and | † San Salv. S. 300.

remainder of their lives they enjoy eminent privileges, as being the lawful wives of the god, and receive a portion of all the sacrifices and gifts offered to him. They are permitted to marry a human spouse, and then their power over their husbands is unlimited. Should the latter presume to set themselves in opposition to the will of their divine helpmeets, they run the risk of being assassinated by the priestesses and by the other

spouses of the god.

Traces of animal-fetichism are to be found even in the more highly-developed forms of religion. The Israelitish worship of the Golden Calf, and of the golden calves set up by Jeroboam is the product of a rude intelligence, as yet unfitted for the purer worship of Jahve, which belongs to a higher state of intellectual development.* The raising up of the Brazen Serpent by Moses, the sight of which healed the people of Israel, would appear to be a relic of ancient serpentfetichism. (See above, Fernando Po.) Of the worship of animals among the Egyptians Bastian says:† "At Heliopolis and at Thebes, good care was taken lest travelers should peep behind the curtain. But when the specious cloak of philosophy, by means of which the Egyptians imposed on their neighbors, is stripped off, but little is to be seen beyond γόητες πάιτει. What we should despise as stupid fetichism in a Negro tribe, was admired as the profoundest wisdom in the world's metropolis. The close connection between the usages of the ancient Egyptians, and those of the other African races, is too evident to be overlooked."

As we have already seen, the savage does not view his fetich as a being so exalted that in no case he may

^{*} Cf. Merx, Art. Abgottercei, in Schenkel's Bibellexikon.

reverence for animals is all the more precarious, inasmuch as he is frequently brought into collision with them in the struggle for existence, as when hunger drives him to use their flesh for food, or when he is obliged to defend himself against the attacks of wild beasts. In such cases he kills the animal, how sacred soever it may The divine *nimbus*, however, which surrounds the animal is not thus dissipated, for the savage will pay due reverence to the body of the slaughtered beast, excusing his deed as best he may: having thus appeased the animal's soul, he contentedly feasts off its flesh, and clothes himself in its skin. "Hail, friend from the spiritland," is the salutation with which the Indian greets the snake he meets; " we were unfortunate, and our friends vonder knew of it. The Great Spirit knew of it. Take this gift of tobacco (sprinkling tobacco dust on the snake's head); it will comfort you after your long journey." With these words he seizes the snake by the tail, passes his hand dexterously along the back, till he reaches the head, and then crushes the reptile to death. He strips off the skin, which he wears as a trophy.* "Be not angry with us," say the Indians to the bear they have killed, "for having slain you. flash coming from the guns of the You have understanding, and know. that our children are hungry. They love you, and they want to eat your flesh. Is it not an honor for you to were quite sure. The horse, however, become food for the children of the was something entirely new to them, great chief?"† Sometimes they appease the bear they have killed by placing in its mouth a tobacco-pipe, lightning, and on this ground worshipinto the head of which they blow, filling the animal's throat with smoke, Cortez left with these friendly people and meanwhile asking forgiveness, one of his horses that had received During a meal, of which the bear an injury in the foot. himself is the principal dish, they set up his head on an elevated place and chant songs of praise in his honor.‡ The Ostiaks attach the head of the

withhold from him obedience. His | bear to a tree, and pay it divine honor: then they utter their laments over its carcass, in doleful tones, inquiring, "Who has deprived you of life?" and immediately themselves giving the answer, "The Russians! Who cut off your head? The ax of the Russians. Who has stripped you of your hide? Some Russian's knife."* The inhabitants of Northern Europe, from a feeling of reverence, never call the bear by his own name, but only "the old man in the coat of fur." † When the Madagascans kill a whale calf, they make their excuses to its dam, and entreat her to go away, ‡ just as the Kaffirs do, after they have cap-

tured an elephant.

As fetiches generally, in accordance with the principles already explained (Ch. III.), are regarded as the causes of phenomena, which in point of fact stand to them not at all in the relation of effects, so too those animals which are worshiped are by their devotees arranged in causal relation with phenomena, whenever the true cause cannot be found. Hence the Yakutes regarded the camel as the cause of the small-pox (p. 24). The Mexicans first became acquainted on the one hand with the horse, on the other with ships, when the Spaniards came to their shores. The report and the latter they took to be thunder and lightning. Who produced these phenomena? Not men; of that they and therefore they regarded the horse as the producer of the thunder and ed him as a god. "At his departure The Indians conceived a sentiment of reverence

^{*} Waitz, III. 192.

[†] Lettr. édif. N. E. VI. 174.

[‡] Charlevoix, p. 117, 300.

^{*} Isbrand, Voy. au Nord. VIII. 411.

[†] Georgi, Beschr. S. 14, 21. † Owen, Narr. of a Vov. to explore the Shores of Africa, Arabia and Madagascar.

Lond. 1833, I. 170. § Moodie, Ten years in S. Africa. Lond. 1835, II. 333.

FETICHISM. 52

connected with the mysterious power drinks there is ebb: but when he of the white man. After their visitors ejects water, there is flow of tide. had taken their leave, they offered In the mythology of Japan and China, flowers to the horse, and prepared when the dragon Tat quits the sea for him, it is said, many savory dishes to saunter through the air, we have of poultry, such as they were wont to the waterspout. prepare for the sick. The poor beast starved to death with such novel food. The terrified Indians set up his image in stone, in one of their teocallis, and worshiped it as a god. When, in the senses, to which, anthropopath-1618, two Franciscans came to this ically apprehended, man attributes locality (which was then as little causal power, and which he worships. known to the Spaniards as before Hence objects the most widely di-Cortez's visit) to preach the gospel verse becomes fetiches. Hence too, there, one of the most notable things they found was this image of a horse, in him, will be a fetich. Both in Afwhich was worshiped by the devout rica and in America identical views Indians as the god of thunder and are taken of those individuals who Jacob Grimm cites lightning." * numerous cases of animal-worship whether of body or of mind-for inamong the ancient Teutons. Thus, whoever kills the haus-otter (a small fools, etc. In Bornoo albinos are obinnoxious snake) will die within the The killing of a swallow (which is a sacred bird) causes rain to fall for four weeks.‡ The giant eagle Hraesvelgr, in Northern mythology, causes the winds by beating his wings on the outer verge of the earth.§ The dew of morning is the foam that falls to the earth from the mouth of Hrimfaxi, the black steed of the night. || Sköll and Hati, two gigantic wolves, are ever chasing the sun and the moon, and hence it is that the latter ever speed on—a thing they would not do, were it not that they feared being overtaken by the wolves. Eclipses of sun and moon occur when the wolves overtake their prey, and have commenced to gulp them down; but fortunately the victims have so far been always successful in making their escape. In Oriental fable the dragon takes the wolf's The serpent Jörmungandr, which lives in the sea, encloses the

for the beast, as being in some way whole earth in his folds. When he

7. Men as Fetiches.

A fetich is an object perceptible by man himself, if the conditions unite possess any extraordinary deformity, stance, albinos, dwarfs, hunchbacks, jects of fear, as beings gifted with supernatural power; * in Senegambia, if they are slaves, they are given their freedom, are exempted from all labor, and are cheerfully supported at others' expense,† In Congo the king keeps them in his palace, as "feticles which give him influence over the Europeans." ‡ They are held in such respect that they may take whatever they will; and he who is deprived of his property by them, esteems himself honored. In Loango they are esteemed above the Gangas, and their hair is sold at a high price as a holy relic.§ Thus may a man become a fetich.

This fetichistic worship of man is a totally different thing from the respect which is paid to the man whose extraordinary power is due simply to the fact that he is the owner of certain mighty fetiches. This is the case with the ordinary fetich-priest, and with many kings, who by means of their fetiches may decree favorable or unfa-

† Raffenel, Nouv. Voy. dans le pays des

* Kölle, p. 401.

Nègres. Par. 1856, I. 230.

^{*} Prescott, Conq. Mex. H. 369.

[†] D. M. Anh. Aberglaube Nr. 143.

^{† 16.} Nr. 378. § D. M. S. 361. § D. M. S. 368.

[¶] D. M. S. 401.

[‡] Bastian, 34.

[§] Proyart, 172.

when Ogautan and Möndull in the was different: these white men were saga, by shaking their weather-bag considered gods. Hence they were (vedhrbelgr) cause wind and tempest; viewed not from the fetichistic standor when the Swedish king Eirîkr, sur- point, but from that of polytheism, the caused the wind to blow from the pointed out. On this account the point toward which he turned his hat.* Gilbert Islanders carried Wood about But if such power was attributed to in their arms, and the Oatafians enthe individuals themselves, and not to tertained Hale (whose ship, as they their fetiches, then they themselves became fetiches. Thus the Chitome of Congo is regarded as a fetich, as also, probably, the king of Usambara. whose power is so unlimited, that one of his subjects, describing the actual relation between ruler and subject, said: "We are all the slaves of the Zumbe (king) and he is our Mulungu (god)."† The Tamol of the western Caroline Islands appears to belong to the same class as the Chitome.‡ The nobility in those islands have unlimited power over the people, but they themselves in turn are subject to a Tamol in each separate island, and he is absolute monarch. Whoever approaches him on business, must come with his head bowed down to the level of his knees. He takes his position in silence, and awaits the Tamol's order to speak. The potentate's words pass for those of a god, and his hands and feet are kissed as often as a petition is addressed to him. idolatrous worship of the princes of Tonga, whose touch suffices to make any object holy, also appears to be fetichistic. But of a different kind was the honor which, for instance, the Mexicans paid to Cortez; § the Sandwich Islanders to Captain Cook: | the Kamtchatdales to the first Russian seen by them; ¶ the inhabitants of Cassegut to De Brue;** the Gilbert Islanders to the Scotchman Wood; †† the Oatafians to Captain

vorable weather, etc., as, for instance, | Hale.* In these cases the motive Weather-hat (vedhrhattr), origin of which we have already thought, had come down from heaven) with solemn dances, lest they should offend the deity; and answered his questions in song. The white men were identified with deceased ancestors,† being supposed to be the latter either in propriis personis or in their ghosts. Accordingly, here we have no fetichistic worship.‡

CHAPTER VI.

THE HIGHEST GRADE OF FETICHISM.

1. The New Object.

ALL the objects which we have so far considered as fetiches, how much soever they may differ among themselves, have this in common, that they exist in man's immediate environment: that they are within his reach, and almost all tangible. They are all circumscribed by the limits of earth, and mostly confined to the very spot which is the savage's own habitat: he necessarily comes in contact with them, nor is there any need of special search to find them out.

Furthermore, all the objects which the savage in the lowest stage of intellectual development considers use-

^{*} Hale, Eth. and Philol. (U. S. Exp.) Phil. 1846, 151 seq. † Cf. Gerland, V. 141.

t This fifth chapter makes no pretension to an exhaustive treatment of its topics. Its object is simply to indicate the principal points of view, from which the various obiects of fetich worship are to be regarded, with reference to the matter in hand. To collect and describe all the forms of fetichism in use among the various races of men, will furnish matter for as many special investigations as there are peoples and religions.

^{*} Grimm, D. M. S. 368.

[†] Krapf, Reisen in O. Afrika (1837-55). Stuttg. 1858, I. 291, note.

[‡] Gerland ap. Waitz, V. 2, 116.

[§] Acosta, p. 204. || Cook's Last Voyage, III.

[¶] Müller, Sammlung russ. gesch. III. 19.

^{**} Labat, Voy. V. 172.

^{††} Gerland, V. 141.

ner to the earth; as all his aspira- er interest. But now the will is never tions and all his interests are con- without its object, never stands by itcerned with earthly things. For what self as will simply, but always as will interests has he? Those of a spirit- determined, always as will directed ual nature are unknown to him, and towards an object: and it ever exthose which he does recognize have tends just as far as its objects. reference simply to his physical well- therefore a higher will, a higher inbeing; his bodily appetites are the terest is to be awakened, a new obonly stimuli which excite his will, ject must necessarily be attained, by and engage his whole attention. But impelling toward which the energies how is he to gratify these appetites? of the will we give them a new direc-The sky with all its stars will not ap- tion and elevate them. But of what pease his hunger, nor has the firma- kind must this object be, in order to ment power to sate his lust. The awaken a new and a higher interest? gratification of these appetites is to be found only here below. It is the age mind it must be adapted to the earth alone that can give him the ob-savage's modes of apprehension. iects of his desire, and he has no wish it had no aspect which the savage for the things lying beyond. For us mind might grasp, it could excite in it these earthly objects are become also no interest. Let us see the mode and objects of higher, more spiritual in- the measure of the savage's mental terest, inasmuch as we have made grasp. Abstract ideas, spiritual conthem objects of knowledge; but they ceptions, purely mental phenomena are not at all objects for the savage are to him unintelligible, and conin this sense. He has no desire of sequently uninteresting, indifferent, knowledge for knowledge' sake: he He apprehends only what is appre-desires things only so far as they can bensible through the senses, or what gratify his grosser passions. What- he can sac. The new object, theresoever does not minister to these, is fore, if it is to excite an interest in of no interest for him, is no object for his mind must be one that is apprehim, does not arrest his attention; just hensible through the senses. as animals "in the state of freedom But the new object must awaken in only have perfectly clear conceptions him a higher interest than any he has of the few things which are closely hitherto known, and to this end the connected with their daily wants and interests which hitherto have stimuwith their daily life, but suffer every- lated him must in some degree be rething else to pass by almost unno- pressed. Now it is the new object ticed."* A plant is an object for the which has to do this. Let us see savage only in so far as it may supply what kind of objects will fail to disfood: it has no value for him as a place the old interests, or in other botanical specimen, and it is only as words the bodily appetites of hunger an article of food that it can interest and lust, and the natural emotions him. These mere bodily interests of such as joy and anger, which have his are amply secured within the nar-been hitherto supreme. The savage row earthly world with which he is has so far recognized only these, and acquainted. So long as he experi- has prized only such objects as anences none but simply physical inter- swer to them. So long as he comes ests, he rests content with his con- in contact with such objects as these, tracted world, and his mind remains so long will this class of interests be confined within its narrow sphere. If served and go on growing. The ob-

ful or desirable, belong in like man-trange, he must experience some high-

To arouse such interest in the sav-

therefore his world is to extend its jects therefore which answer to these limits, and his mind to take a broader appetites and passions will never tend to check the growth of inferior interests. They are only to be repressed

savagery. way gratify these desires, and still rialistic. must excite an interest in the savage's

by some object not answering to tion. But if the savage cannot emthem, nor tending to enhance them, ploy it for sensuous gratification, and but which, nevertheless, can engage yet is to make it an object of contem-the savage's attention. If it can do plation, his attitude towards it must this without at all gratifying his bod- be one of attention, gazing, observaily appetites, the will of the savage tion. Hence the new object, which will be thereby to a certain degree is to repress sensuous desire, must be weaned of these appetites and turned of such a nature as to rivet the attenin a new direction, i.e., will have a tion, and to draw upon itself the gaze new interest. Therefore the new ob- of the savage. It must therefore be ject must not serve in any way for visible, and as has been already said, the gratification of sensuous desire; an object apprehensible by sense, for whatsoever has that tendency be- Now what is that object of sense longs to the sphere of the lower in- which alone can rivet his attention, terests, and so to the sphere of pure and yet never be subordinated to And conversely, every-man's use? Since it must not lie thing that has hitherto been com- within the sphere of his sensuous deprised within the sphere of the sav- sire, it must consequently lie without age serves, in so far as his interests the earth: and yet it must be observare centered in it, to gratify these sen- able by the senses, and specially suous desires, they being as yet his fitted to engage the attention—hence only interests. Hence every object something noteworthy and wonderful which lies within his immediate which shall surpass all things else in sphere is liable at any time to be-splendor. But now if this object come merely the object of these de- could be contemplated and its propsires. If then the new object is to erties ascertained in a moment it be of such a nature that it will not could engage the attention of the savanswer to these desires, it must be so age only for a brief space, and then remote from the savage's immediate he would be again free to give himself sphere that these sensuous desires up anew to merely sensuous gratificacan never in it find their gratification: tion. The new object must therefore and it must ever stand on a plane not alone surpass all others in magnihigh above these, never beneath them, tude and splendor, but it must also Such grand objects as a mountain or be so vast and stupendous, that man the sea do not, it is true, serve to ap- may find no end of contemplating it. pease hunger or to gratify lust, but that it shall lead him on to ever new still they may in some manner be contemplations, and so ever withdraw subordinated to the savage's will and him from ministering to his sensuous desire: he can ascend the mountain, appetites. If then there be found an set his foot upon its summit, break object which irresistibly challenges fragments of rock from it, etc.; he his attention merely as an object of can sail upon the sea, take water out contemplation without in the least of it, scourge it, etc. And so every gratifying his lower passions, he has object upon the earth may be brought henceforth, in addition to his former into subjection to his power; and sensuous interests, a new one which hence the new object must lie entirely consists in observation, contempla-beyond the limits of earth, and be-tion: and this new interest we call vond the sphere of his sensuous de- an intellectual one, as contrasted with sires. But now since it can in no the other, which is sensuous or mate-

Thus the savage could acquire an breast, how is it to attain its end? intellectual interest only through As we have seen, it must not be an some object of sense lying without object of sensuous gratification, nor the sphere of his passions, and hence yet an object for use or for consump- extra-terrestrial, which, however, was

FETICHISM.

tracting his gaze; which should be It is only after he has with some inpossessed of preëminent sensuous terest contemplated this object, that splendor and be of such grand pro- his mind goes out to observe the uniportions that it might be contemplated verse, for knowledge' sake, and to forever and still ever invite to fresh study the other objects upon the earth. contemplation. Now of all the ob- as objects of knowledge, which before jects in the universe there is but one were only objects of desire. This is which fulfills all these requirements, perfectly consequent, for so soon as and that is the Firmament with its one thing is regarded with intellectual countless stars. The sky is the new interest, all other things will be reobject, being perceptible by the garded from the like point of view, sense-the mightiest, grandest and since they are all mutually related. most stupendous of all the objects of Hence, of all the sciences worthy of sense, with its blazing sun, its shining the name, astronomy is the oldest and moon, its twinkling stars, its rosy the first; and hence too do we find, blush at morn and eve, and the deep even in the remotest historic times, blue of its mighty arch. By the and among the most ancient peoples, splendor of its ever-changing and that the results of astronomy, such as sublime phenomena, it invites the the ascertainment of the year's length, savage to the contemplation of itself, and kindred facts, are more correctly his will a new direction, a new inter- heavens, so soon as there is any deest—that of contemplation, of thirst mand among savages for scientific

fitted to engage his attention by at- awakens in him intellectual interest without ministering to his lower na- apprehended than the results of any ture. Thus this new object gives to other science. The science of the for knowledge: an intellectual inter- knowledge, constitutes the first object of scientific instruction. I have said, We must go back in imagination to scientific instruction, to distinguish it the time when man was without from religious, which no doubt preknowledge, when all was ignorance, cedes astronomical instruction: but when there was no school to give in- this precedence of religious instrucstruction, as instruction is given now. Ition is due simply to the fact that it Then every step toward knowledge is based upon a total ignorance of was an advance into the unknown Nature, which of course is prior to land, and individual observation was knowledge. But the earliest scientific the only schoolmaster. But observation was limited to those objects which of astronomy. Leaving out of view Nature afforded: hence Nature was, the instruction the savage gains as to after all, the true Teacher. Were it the objects in daily use, even the rudnot that there was in the universe an est of savages oftentimes receives reobject which irresistibly challenged at-tention, without ministering to man's that can lay claim to the title of scienlower passions, and which thus in tific education. If therefore we anysome measure dimmished the force of where find scientific instruction given the latter, man could never have (and the first lessons will be always in risen above his animal instincts, nor astronomy) we may confidently assert ever have conceived an intellectual that mental development has made interest. Hence wherever the savage considerable progress. This is verihas not yet made the heavens the ob- fied in the case of the South-Sea Isject of his contemplation, we may be landers in the Carolines. Canova, in sure that his condition is that of ex- describing the Caroline Islands, says, treme barbarism, which latter however. "In each district there are two places diminishes, in proportion as his knowl- of public instruction, in the one of edge of the heavens advances. The which the boys, and in the other the firmament is the first object which girls receive instruction in astronomy,

that science goes. The master in pending upon their decrees. giving his lessons uses a globe, on changes which he observes taking which the position of the principal place among them he interprets as stars is indicated with rude art." * tokens of their good-will or their en-Hence, too, astronomy is the first sub- mity, their favor or their displeasure: ject-matter of early scientific litera- and hence it is that the early contemture. The book; of the Mexicans plation of the heavens, as being had on one page mythological figures, coupled with anthropopathic appreritual directions, laws and the history hension, is necessarily fetichistic, and of the country, while on the opposite that astronomy makes its first appearpage, out of all the objects of theoret- ance as astrology; hence, too, the latical science, they set forth only those ter precedes the former chronologicof astronomy and chronological calcu- ally. lations.† The "innumerable books" of the people of Yucatan, whose mental culture was about parallel with that of the Mexicans, give the constellations, chronological calculations, history of the country.‡ of a hymn book and an almanac.

mate bodies, being, like all other objects, apprehended by him anthropopathically. Hence they have life and with its various phenomena, will, even as man himself-and thus knowledge is limited to the sensuous

as far as the natives' knowledge of pests: man sees his own fate as de-

2. The Gradual Acquisition of Knowledge.

Time was when the heavenly bodand the fauna and flora, and political ies were not yet an object of contem-Science plation. We do not say that then in antiquity developed similar phe- man did not notice, did not see nomena in its beginnings, and the the sun, moon and stars-even brute library of a German peasant consists beasts have so much cognizance of the heavens: but the time was when We will suppose the savage, then, man had no definite notion of the beginning to contemplate the heav-heavenly bodies, when he knew nothenly bodies with some interest. The ing either of the mode or of the reguphenomena which these produce, viz., larity of their movements, or of their light and heat, and all the effects of periods: in short, when his knowledge these latter, have so wide an influence, of them was limited to the general and so intimately concern man him-sensuous impression. Later he comes self, and further, it is so patent that to see in the heavens an object made these heavenly bodies are in truth the up of distinct parts. Between the efficient causes of the phenomena, point of departure, nescience, and that man establishes a relation bethis term, knowledge, lies the period tween them and his own life, between of gradual acquisition, where, starting them and all Nature. There can be from small beginnings, the mind adnothing on earth mightier than they, vances step by step to knowledge, their influence pervading all space. Let us form a clear conception of the they are supreme, they can account order in which the heavenly bodies for everything, they are for man Ulti- would by degrees come to be known mate Causes. But these causes do to man, and we shall at the same not for him operate through mechan-time understand the order in which ical laws they are not for him inani-they presented themselves to him as objects of fetichistic contemplation.

When he begins to observe the sky they become the supreme fetiches, impression. But in this case the ob-But their energies are not restricted server is not one who has pushed his to the production of sterms and tem-investigations deeply into other subjects, and now to this new investigation brings a disciplined mind which can keenly analyze the phenomena;

^{*} Gerland apud Waitz, V. 2. 110.

[†] Waitz, IV 171. ‡ Waitz, IV 311.

powers of thought all undeveloped, pel him again to resume his search. Such an observer will be chiefly Thus, if he would support life, he guided by the impression left by the must through the day keep his eyes object on his senses. Hence that steadily fixed on the earth. And heavenly body which appears most then the Sun is no such object as striking to the eye, which exhibits would through the day very forcibly the greatest number of varying claim the attention of a man whose phases, and which is easiest observ- mind is void of thought, and whose ed, will first attract and rivet his at- only care is to still the cries of huntention. Now such an object is not ger. All nature is now bathed in the Sun, but the Moon: and hence light; there are no dark shadows, no we find that, among savages, the contrasts; and contrast it is which latter is worshiped at a much ear- enables an object to make a very deep lier period than the former, and impression. Day with its light is a is considered of higher importance. very common occurrence—it is in-This fact, which to us who can more deed a fact of daily experience. But truly estimate the relative importance suppose that the man directs his gaze of the two luminaries, appears at toward the sun; beyond its daily first glance unaccountable, admits traversing the heavens, no phases are of a very easy explication, when we observable which might readily imconsider on the one hand the exte- press the savage mind. The Sun rior, sensible aspects of the two, and changes not like the Moon; those on the other hand the intellectual changes which we observe in the place status of the savage,

in the day-time little leisure for the so long a period, that only close obcontemplation of Nature in general, servation can detect them at all; and or of the Sun in particular: he must for this the savage has neither the needs find his daily provision, and will nor the perseverance. Hence this care engrosses all his attention, the sun is an object rather of medi-For the more perfect, the means and tation, than of contemplation; and the implements, the machinery he to study it requires a rather highly employs, the sooner can be supply developed understanding. It is very his bodily wants, and the more leisure different with the moon. At night he has for mental development. the less developed he is, the clumsier toil; his wants are supplied; hence are the means at his command for he is now at leisure. But, most imtaking his prey, and the more time portant of all, the effect of contrast does he consume in gathering to- is here to be observed. The earth is gether his daily provision, and hence wrapt in darkness; the superstia Tierra del Fuegian is his whole life tious savage meanwhile shudders with long occupied with this one care, and fear, while every nerve and every this is his sole employment, viz., sense is on the stretch. Then emerto gain his sustenance. As he nei- ges from beneath the horizon the ther sows nor plants, and as the des-bright orb of the full Moon, round as ert region in which he lives vields a wheel, red as fire. Then how manhim scarcely one natural product, he ifold are its apparitions, the like of must needs be restricted to this one which are never to be seen in the pursuit. If perchance he succeeds in Sun, and which are specially fitted finding a sufficiency for the present, the to call forth the astonishment of man, search has wearied him and he seeks and to invite him to reflection. Now repose in sleep: and when he awakes she is fiery red, in a moment pale and

he is only an overgrown infant, with the renewed crayings of hunger comof its rising, from solstice to solstice. In the first place the savage has take place so gradually, and require But the savage has finished his daily - wan: at one time a majestic full orb, at another wasted away, and resemb-

^{*} Cf. Wuttke, I. 66.

ling a sickle. The dark spots upon culiar form. Then that chain of three her surface lead men to fancy that she has a human face, or give rise to other imaginations: oftentimes she is totally eclipsed. In short, several peculiar and directly visible phenomena are observed in the moon, which must attract the attention of man, and cause him thither to direct his gaze. He will also attempt to assign causes for these phenomena, and these attempts, how inept and anthropopathic soever they may be, still will at least have this effect, that they will connect notions together, i.e., will serve as the first steps in thinking. Thus then we need not be at all surprised if when a rude people first begin to contemplate and to worship as fetiches the heavenly bodies, the Moon has precedence of the Sun.*

But after the Moon has become an object of man's contemplation, it is not now the Sun which he next studies, but certain stars which, as they appear in the gloom of night, affect him more sensibly and offer for his contemplation properties stranger and more easily observable than does the There are five stars and constellations t which first attract the notice of man, and which we always find recognized by such savages as have even made a beginning in the study The first is Venus. of astronomy. which with its brilliant light attracts attention, particularly by appearing first of all the stars in the evening, and vanishing last of all in the morning—the Morning and the Evening Star, which at first passed for two distinct luminaries, and which Pythagoras was the first among the Greeks to recognize as one.‡ Next is the Ursa Major, the Great Bear, or the Wain, which never drops below the horizon in the northern hemisphere; together with his counterpart, the Ursa Minor, the Little Bear; both of these being noticeable from their pe-

brilliant stars, known to the Greeks as Orion, which the people in Upper Germany still call the Drei Mäder (Three Mowers), because they resemble three mowers standing in the meadow one behind the other.* nally, the space so thickly gemmed with stars, situate between the shoulders of Taurus, and of which chiefly seven (more exactly six) are easily discernible — the Seven Pleiades, which are distinguished as being in the center of the glorious system of the Milky Way, and which gain all the higher eminence from the fact that the space all around them, to the extent of six of their diameters, is relatively poor in stars; and from this. that for many regions of the South these stars never set. These five are the first to be recognized: they are *popular* stars the world over. toward these that Odysseus directed his eyes when, quitting Calypso's isle. he takes his homeward course over

Αὐτὰρ ὁ πηδαλίω ἰθύνετο τεχνηέντως Ήμενος οὐδε οἱ ὕπνος ἐπὶ βλεφάροισιν ἔπιπτεν Πλημάδος τ' έσορωντι και όψε δύοντα Βοώτην Αρκτον θ', ήν και ἄμαξαν ἐπίκλησιν καλέωνσιν, "Η τ' αὐτοῦ στρέφεται και τ' 'Ωρίωνα δοκεύει, "Οιη δ'ἀμμορός ἐστι λοετρῶν 'Ωκεανοῖο.

Od. V. 270 seqq.

These Hephæstos represented on Achilles' shield (Il. xviii. 487 segg.). Of these it is said: "Canst thou check the sweet influence of Chima (Pleiades) or loose the band of Kesil (Orion)? Canst thou order Mazzaroth (Sirius) in his period? or canst thou lead Aish (Arcturus) with his sons?" xxxviii. 31.) "Who made Arcturus and Orion and the Pleiades and the chambers of the South?" (Tob. ix. 9.) These were the favorite stars of the Ancient Germans, the Sclavs and the Finns.†

That the Moon was the first among the heavenly bodies to be distinctly studied by man, and that the stars and the Sun followed after, is clearly

^{*} Cf. W. Whewell, Hist, Inductive Sciences, Vol. I.

† Cf. Grimm, D. M. S. 416.

‡ Whewell, Hist. Induct. Sciences, Vol. I.

^{106.}

^{*} Grimm, D. M. 417.

[†] D. M. 416.

FETICIIISM

reckoning time at various periods and in various nations. The mode of teckoning by Moons is the primitive one. We meet with it in the earliest historic records of all civilized nations, and hence we also find it wherever a nation is in the lower stages of development. Here we meet with reckonings by Moons, and by the movements of certain stars: but never by the sun's periods. Nations in this stage of development are raised very considerably above the condition of the rudest barbarism. Last comes the reckoning by the Sun, and this indicates an intellectual status which leaves far behind it the barbarism of savage tribes.

Not to speak of the civilized nations of Europe and Asia, who in early historic times reckoned by moons. this mode of reckoning time is to this day followed throughout Africa * by most of the Negro tribes, as also in America, by the aborigines. The Indians of the latter continent generally reckon thus, and their months bear the names of various objects in Nature, especially animals and the products of the earth.† "Like most of the other tribes, the Dakota Indians reckon twelve months, five each for Summer and Winter, and one each for Spring and Autumn, and add an intercalary month every second year, According to Carver (216) and Heckewelder this intercalation of a so-called "lost month" without a name, occurred every 30th month: but according to Kohl (I. 167), every year. Schoolcraft (V. 419) says that the Algonquins reckon only eleven months, which are brothers, and take to wife, in succession, one woman, the Moon. The Algonquins do not appear to find any difficulty in the fact that between winter and winter there are now 12 now 13 months.‡

The next step in astronomy is to reckon time by the moon and the stars together, excluding the sun, except for

evinced by the different modes of noting the hours of the day; and this mode of reckoning is found among some of the more advanced of the American tribes. The Iroquois and the Ojibbeways had special names for a number of stars; and the latter defined with precision the hours of the night by the rising and setting of these. The Osages, too, marked the progress of night by the stars, and recognized Venus, the three stars in Orion's belt, the Pleiades, and even the Polar Star and the apparent revolution of the neighboring stars around it.* But it is among the natives of the Marian and the Caroline Islands that we find this mode of reckoning time best developed. The Caroline islanders not alone define the periods of the night by the stars, but even divide the year into seasons according to the ascent of certain stars at fixed times; and into months, each having a fixed number of days, according to the moon's several phases. Not alone has each day, but also each division of the day, a distinct name. "According to Freycinct (2, 105) the number of their months was ten, and of these, five (from June to November) constituted the season of winds and rains, and the other five the temperate season. But that writer himself doubts whether they had not two modes of reckoning the year, the one founded on climatic reasons, the other on lunations, and giving a greater number of months than the former." the natives of the Marian Islands there were two parties, one of them counting twelve, and the other thirteen lunations to the year; and their disputes once even led to a war. Caroline men, besides traversing the sea all round their own group of islands for business or pleasure, visit also, whether singly or in squadrons, the Marian Islands. In making this voyage they direct their course according to the starry heavens, which they divide into twelve regions. Cantova makes mention of these twelve

Waitz, H. 224.

[†] Waitz, III. 224.

[†] Waitz, III. 224.

^{*} Nuttall, Journal of Travelsinto the Ar kansas Territory. Phila, 1821, 172 seqq.

[†] Gerland ap. Waitz, V. 286.

regions and of the twelve winds named the air with their fists, to give expresnames."* Of the astronomical instrucalready spoken.

Venus to be more ancient than the ance of the Moon.‡ experience will confirm the assertion) the Phœnicians, Carthaginians, Mexicans and Peruvians.

3. The Worship of the Moon.

The first and lowest stage of the worship of the heavenly bodies is that where the Moon is worshiped and regarded as of more importance than the Sun.

The Kamtchatdales have not vet reached this stage, worshiping, according to Steller, neither Sun nor Moon.‡ The Payaguas, of S. America, on perceiving the New Moon beat

* Ibid. 85.

by the Caroline men. But they had sion, as they say, to their gladness. also another division of the heavens Azara, who relates this fact, further into twenty-four regions, which took says: "Ce qui a donné lieu à queltheir names from the stars which rose ques personnes de croire qu'ils l'adoand set in them. They guide their raient; mais le fait positif est, qu'ils course at sea by these regions, as also ne rendent ni culte ni adoration à by the sun, stars and constellations, rien au monde et qu'ils n'ont aucune whose rising and setting they can ob-réligion."* This joy of the savage on serve, and to which they give special beholding the luminous heavenly bodies leads him to contemplate tion in vogue amongst them we have them, and he soon begins to regard them as the causes of occurrences The reckoning of time by the sun which in no wise depend upon them. is therefore of more recent origin than The Botokuds think the moon is the the reckoning by the moon and stars, cause of most of the phenomena of Among the Mexicans, who reckoned Nature. In the Pelew Islands presolar years, many regarded the planet dictions are made from the appear-Hence the sun.† The discovery of the solar Moon soon passes for a mighty fetich, vear presupposes an extended and la- and so is held in greater consideration borious observation of the sun, and so than the Sun; and accordingly the a high degree of spiritual interest. Moon would be naturally regarded as Hence we might à priori assert (and a Man, the Sun as a Woman. Bleek says, with respect to the Hottentots, that wherever the solar year is accept- "In the lowest stage of culture to be ed as a measure of time, culture has met with among nations having sexgone far beyond its barbarous stages, ual language, the worship of the We may go farther (and here too expe- heavenly bodies acts a very unimporrience will come to our support) and tant part, for the reason that the assert that the worship of the sun is knowledge possessed by savages of only possible where the mind has the motions of these bodies is too slight reached a degree of development far to give a basis for reverential contemhigher than that required for the wor- plation. And yet we find even here ship of the moon and stars. The na- the rudiments of the mythologic (i.e., tions which have brought the worship anthropopathic) conception. . . . For of the sun to its highest perfection are first the phases of the Moon will excivilized—the Persians, for instance, cite attention. Her gradual waxing and waning gives to the savage the notion of a Being which grows for a while, and then decays, and he readily personifies it. Hence it is not improbable that Moon-worship was the earliest phase of the worship of heavenly bodies. The Hottentots, as we are assured by Kolb, a competent witness, pay divine honor to the Moon. In their language ||khāp §

[†] Waitz, IV. 146.

[‡] Steller, Kamischatka, S. 281.

^{*} Azara, II. 137. † Pr. M. v. Neuwied, R. n. Brasil, II. 58 f. ‡ Hockin, Supplem. to the Account of the

Pelew Islands. Lond. 1803, p. 15. § expresses the lateral clicking sound; Kh is a guttural consonant, and marks the nasal tone.

masculine, and the Sun feminine." had the same opinion: "Audio vet-The Namaguas, an offshoot of the eres Germanos Lunum quoque deum Hottentots, regard the Sun as a lump-coluisse et appellasse Hermon, id est, of "clear fat," which seafarers at-dominum Lunum (Herr Mond), tract to themselves by enchantment (Gesner, Mithridates, Tur. 1555, p. during the night, and then spurn 28.) Hulderic, Eyben (De titulo noafter morning has come, and they bilis. Hemst. 1677, 4, p. 136) says: have no further need of it. The "Qua etiam ratione in vetere idolola-Moon, on the other hand, they regard trico luna non domina, dominus appelas a more important personage than latur: even their own chief Spirit u-Tixo. He (the Moon) once commissioned the Hare to inform mankind that even as the Moon always recovers again his fullness after he has lost it, so they too may come to life again, after death. The hare mistook the message and told men that they must die away, even as the moon does. This was the origin of death. Old Namaquas never eat hare-flesh, probably because this animal is regarded as a divine messenger. The waning of the moon is due to his putting his hand up to his head when he has a headache.* The Mbocovies, neighbors of the Pavaguas, take some of the stars for trees with luminous branches, and others for an ostrich pursued by dogs. (*Cf. supra*, Ch. 111. § 3.) The Sun, they say, is a woman who once fell upon the Earth, and caused thereby great calamity: it was only with great difficulty that she was restored to her place. But the Moon is a man: and his eclipse is caused by a dog tearing out his bowels.† The Navajoes say that the Moon is a man riding on an ass: but that the Sun is set up in the heavens every morning by an old woman. The Greenlanders say that Anningat, the Moon, is a man who is in pursuit of Mallina, the Sun, his sister, with whom he is in fove. \Signature By the Lithuanians, Arabs || and Hindus the Moon is also regard-

(Moon) is, as in ancient Teutonic, 'ed as a man. Our Teutonic ancestors

Bis gottwillkommen, neuer mon, holder herr, Mach mir meines Geldes mehr.

And Eligius: nullus dominos solem aut lunam vocet. The Sun, too, they regarded as a woman: Vetulam novi, quæ credidit solem esse deam, vocans eam sanctam dominam. (Nicolaus de Gawe ap. Grimm.)* The Greeks had for the Moon the two appellations pip, masculine, and oither feminine, and μ_{br} is the more ancient name. The Romans likewise had the two words Lunus and Luna.† The citizens of Carræ believed that whoever regarded the Moon as a male deity, would be lord over women: whoever held him to be female, would be their slave.‡ With regard to the utterly barbarous aborigines of New California Bägert\$ states that not alone are they without social organization, but that not even the trace of any religion is to be found among them. Picolo's account contradicts this, for he says that they worship the Moon. Panches are by Gomara ¶ said to wor-

Indian mythology the Moon is a god, not a goddess."

^{*} D. M. 400 ff.

[†] Macrob. III. c. S. *Cf.* Meiners, I. 389. ‡ Spartian, in Vit. Anton, Carac. c. 7. Et quoniam Dei Luni fecimus mentionem, sciendum, doctissimis quibusque id memoriæ traditum atque ita nunc quoque a Carrenis præcipue haberi, ut qui lunam fæmineo nomine ac sexu putaverit nuncupandam, is addictus mulieribus semper inserviat : at vero qui marem deum esse crediderit, is dominetur uxori, neque ullas muliebres patiatur insidias. Unde quamvis Græci vel Aegyptii eo genere quo fæmineam hominem, etiam Lunam deam dicunt, mystice tamen deum dicunt.

[§] Bagert, Nachricht, v. Californ, S. 168

[&]quot;In prim. de Ind. Madr. 1852, p. 202.

^{*} Waitz, H. 342. † Guevara, Hist. Paraguay, Rio de la Plata y Tucuman, I. 15. C. Waitz, HI. 472. † Davis, El Gringo, or New Mexico and her People. N. Y. 1857, p. 414.

[§] Grimm, D. M. 400.

Muir's Sanskrit Texts, vol. v. p. 76.

ship Sun and Moon, while Piedrahita * | eclipsed. We have already seen that account is of earlier date than Go-sistance by making a fearful noise, mara's: thus Gomara's narrative with a view to frighten the monster would exhibit the progress to the wor- away.* ship of both Sun and Moon from sim- obscuratur, vociferare præsumat," savs ple Moon-worship. The difference Eligius in a sermon. "Vince Luna," between Bägert and Picolo admits of was the cry of the Romans, prompted a similar explanation. With regard by a similar belief: and we meet with to the Kaffirs, too, we have accounts the same usage in other nations, for on the one hand asserting that they instance, among the Christians of do not regard Sun or Moon as objects Abyssinia.† The Mbocovies, as we of worship, though they hold them to have seen, supposed that a dog was be animate beings; and on the other tearing out the entrails of the Manhand accounts affirming explicitly that Moon. Similar beliefs are enterthey hold festival and conduct religitained by American Indians, and this ious dances at the time of the New circumstance will explain their cus-Moon.† The Maravi celebrate the tom of beating their dogs, during an return of the New Moon.‡ Traces eclipse of the Moon, as the Hurons of the old German moon-worship, in did, according to Charlevoix, and also addition to those already mentioned. are found in the following passage who are Sun-worshipers and who refrom Nicolaus de Gawe's work de Superstitionibus: "Insuper hodie inveniuntur homines tam layci quam clerici, literati quam illiterati, et quod plus dolendum est, valde magni, qui cum nouilunium primo viderint flexis genibus adorant: vel deposito capucio vel pileo inclinato capite honorant alloquendo et suscipiendo. Ymmo eciam plures ieiunant ipso die novilunii, sive sit dies dominica in qua secundum ordinacionem ecclesiæ non est ieiunandum propter resurrectionis leticiam sine quacunque alia die, eciamsi esset dies dominice nativitatis. Quæ omnia! habent speciem ydolatrie, ab ydolatris, the background. According to them relicte." §

The Moon being an animated thing and regarded with such veneration, it | make it smaller; just as the Dakota Incannot surprise us to find the liveliest sympathy excited in her favor, espe- is caused by the gnawing of a numcially whenever she appeared in danger of perishing, i. e., when she is

expressly affirms that they worship several tribes of savages account for the Moon only. But these conflict this phenomenon by attributing it to ing statements may perhaps be recon the attack of a wolf on the Moon. ciled if we recollect that Piedrahita's Hence they hasten to render her as-"Nullus, si quando luna the Peruvians. The Potowatomies, gard the moon as a maleficent deity, as compared with the Sun, suppose that in the Moon there dwells an old woman who weaves a basket, on the completion of which the world will come to an end: but the basket is always torn in pieces by a dog, before it is finished. Whenever the woman struggles with the dog there is a lunar eclipse.‡ Many of the South Sea Islanders explain this phenomenon differently, accounting for it in accordance with the dogmas of Soul-worship, which appears to overmaster their fetichism, and to force it into the Moon is the food of departed spirits, and by feasting off it, they dians say that the waning of the Moon ber of little mice (Mice-souls?). But it ever waxes again. When therefore the Moon is eclipsed, these islanders

^{*} Hist. de las conq. del nuevo reyno de Granada, I. parte. Amberes, 1688, V. I. † Waitz, H. 411 f.

[†] Monteiro in the Ztschr. f. Allg. Erdkunde, VI. 260 ff. Ausland, 1858, p. 260; Waitz, II.

[§] Grimm, D. M. Anhang. S. XLIV.

^{*} Cf. Grimm, D. M. 401.

[†] Waitz, II. 503. † De Smet, Missions de l'Oregon et Voyages aux. Montagnes rocheuses (1845). Gand. 1848, p. 298.

[§] Turner, p. 529 seqq.

without sustenance. To prevent so among the Mexicans, who held it to great a calamity they make a great be more ancient than the Sun. The offering of cocoa-nuts. On the island last sacrifice offered to the "Great of Eap* it is a wizard that causes the Star" by the Pawnees was offered in Moon to wane, by his enchantments.

We need not be surprised if we find a well-developed worship of spirits among people who pay no worship to the stars. The conception and wor- given her, was bound fast upon a fuship of ghosts and spirits belong to neral pile and shot to death with arthe lowest grades of human development, and are parallel with those phases of fetichism which have all their objects upon the earth itself. More recent than either of these is Star-worship; and to the highest grade of this, which is the climax of fetichism, answers polytheism, the climax of spirit-worship. Where the two intersect, monotheism results. But of course we can only state these points here as theses susceptible of proof.

4. The Worship of the Stars.

The Hottentots, who are Moonworshipers, and who take the Sun to be a lump of fat, have names for several stars, vet do not worship them.† The ancient religion of the Moxos differed for each village. They worshiped severally the Sun, the Moon and the Stars, as well as spirits and fetiches of every description. Their principal objects of worship were the evil spirit Choquigua and the jaguar: vet they kept a festival at the time of the New Moon, and Carasco is inclined to consider Star-worship as their primitive religion.‡ The Abipones of S. America worshiped as fetiches the Pleiades, which for them never set. They regarded this constellation as the founder of their race, and gave to it the same name which, they gave to their conjuring doctors, Keebet. The Pawnee Indians used to offer human sacrifice annually to the "great star" which they worshiped, viz.. Venus: and the same planet

are alarmed, lest the souls should go had a chapel dedicated in its honor 1837 or 1838. Then a Sioux girl was the victim, and she, after having been carefully tended and well fed, without any intimation of her fate being Whilst vet she lived, they rows. carved pieces of flesh off her body, and suffered her blood to flow over the young shoots of corn.*

5. The Transition to Sun-Worship.

Wherever the Moon and the Stars objects of worship, the Sun's claims to adoration will soon be recognized, and then the Sun and the Moon will at first receive equal veneration, to the prejudice of the stars, which will hold but a subordinate position. But when once attention has been directed to the Sun, it will quickly be seen that, as compared with the Moon, he is the superior Being, and then their mutual relations will be reversed, the Sun coming prominently into the foreground. Hence in the worship of Sun and Moon, we recognize two stages: in the one these two luminaries jointly receive equal worship; in the other they are both worshiped indeed, but still the Sun far outranks the Moon, and the religious halo surrounding the latter is as pale as her beams. For all these stages we can find representatives, and of the latter it is to be observed that their intellectual advancement will correspond with the progress they have made in the worship of the heavenly bodies.

The Comanche Indians † worship the Sun and Moon ex æque. They call the Sun the God of Day, the Moon the God of Night, and the Earth, the Common Mother of all.

^{*} Gerland apud Waitz, V. 2, 147.

[†] Campbell, First voyage.

[†] Waitz, III. 538. § Dobrizhofer, II, 80, 87 seqq. 317.

^{*} De Smet; J. Irving, Indian sketches. Lond. 1835; Schoolcraft, IV. 50, V. 77. † Waitz, IV. 213, ff.

In their view the Sun and the Moon over Moon and Earth.* are both men: they stand on terms of equality, not of subordination, which latter would not be the case were they regarded as Man and Woman. The savage considers woman to be immeasurably the inferior of man, and in the earlier stages of the worship of Sun and Moon the latter would be male, the former In that stage which the Comanches have reached they are both male: and it is only later that the Sun is held to be a man, the Moon a woman. As for the intellectual culture of these savages, it may be estimated from the following circumstances. On journeys they direct their course by the Polar Star. They do not follow agriculture, living solely by the chase. Their clothing is of tanned deer-skin. Their weapons are bows and arrows, the lasso and the shield, and now muskets. Each individual is allowed unrestricted freedom of action, but vet offenses are punished by decree of a council summoned annually by the Debauchery is common, and polygamy prevails amongst them. They have no word meaning virgin, and it is simple politeness to offer to the stranger a female companion.

On the stage next above this, both Sun and Moon are also worshiped, but the Sun has precedence of the Moon, the latter being female, the former male. The Muzos say the Sun is their Father, the Moon their The natives of Cumana, Mother. one of the Caribees, used to worship Sun and Moon as man and wife.* The Sun goes on increasing in importance: thus the Potowatomies † hold the Moon to be an evil female deity (supra, p. 93); the Sun-worshiping Winnebagoes ‡ do not believe that the Moon has any power over mankind, while the Osages regard the Sun as the Great Spirit, ruling

reach that stage in the worship of the heavenly bodies, where the Sun assumes the unchallenged pre-eminence.

6. The Worship of the Sun.

Almost all the tribes of American Indians worship the Sun as the Supreme Deity. In North America, according to Waitz (III, 180) this is true as regards all the tribes as far west as the Crows and the Blackfeet. and as far north as the Ottawas. Florida the worship of the Sun reigned, and it extended thence to the Apache country. Sun-worship, however, reached its highest stage of development in Middle and South America, among the Mexicans and the Peruvians.

The Indians of Florida prayed to the Sun, whom they held to be a man, for victory in battle, and sang hymns of praise in his honor.† The chief offering made to the Sun by the Indians is tobacco-smoke from the pipe, and thus smoking is among them a religious rite. The Hurons, Mandans, Menitarees and other tribes held the tobacco-pipe, whose high importance as the pipe of peace is well known, to be the gift of the Sun: and they, as well as many tribes lying further south, offer this incense to the Sun, to the four cardinal points of the heavens, and to Mother Earth. ‡ The chiefs of the Hudson's Bay Indians used to direct three puffs of smoke toward the rising Sun, and greet him with a reverential salutation,\$ In the Council, the pipe is always passed around, following thus the Sun's course, as they say. In Virginia, the aborigines used to crouch at sunrise and sunset, and direct their

^{*}Gomara, 208; Herrera, Descripcion de las Indias occidentales. Madrid, 1730, III. 4. 10 seq.

[†]Keating, I. 216. ‡ Schoolcraft, IV. 240.

^{*} Morse, Rep. to Sec. of War, on Ind. Affairs. New Haven; 1822, Appendix, 229.

[†] Landonnière, Histoire notable de la Floride (1562-67). Par. 1853, 8, 99 : Herrera, Floride (1302-07). Fai. 1055, 6, 97. Herrica, VII. 1, 15, 2, 6; Buschmann ap. Abhandl, d. Akad. d. Wiss. zu Berl. 1854, S. 300.

‡ Lafitau, II. 134 seqq.; Lettr. édif. I. 763; Nuttall, 274; Keating, I. 408 et alibi.

§ De la Potherie, I. 121, 131, II. 106.

Perrin du Lac, I. 179.

eves and their hands toward that says that among these is to be found luminary.* The Osages † each morning pronounce a prayer to the Sun, and sion of Sun-worship, in conjunction in the chants of the Algonquin prophets ‡ the Sun is honored as supreme-The Potowhtomies \$ used occasionally to get upon the roofs of their huts at the rising of the Sun and on bended knees make an offering to him of maize gruel. The Spokans call themselves "Sons of the Sun." We can estimate the intellectual status of these Indians from the grade of religious development which they have reached; and the notable researches made by Waitz show that the former is on the whole considerably higher than has been commonly supposed. The nearer we approach the fairest fruit had it not been ruthto Mexico, the higher is the develop- lessly interrupted by the fanatic zeal ment of Sun-worship, and the higher. the intellectual status of the aborigines. Even the natives of the lower Colorado country, | who were Sun-worshipers, did not practice polygamy, jealously watched over the chastity of veloped among the Mexicans,* still the young women previous to marriage, and were of mild manners, though warlike. The Pueblos, dwelling in the N. E. part of New Mexico, whose ure. It has occasioned surprise to chief god is the Sun, are very indus- many to find polytheism and Suntrious farmers with well-constructed worship co-existent, as in the religion implements of husbandry: weave woolen and cotton fabrics; are well clothed, and build houses of stone and adobes, three or four stories in height. As well in geographical position as in culture and worship the Mexicans Louisiana, together with the kindred people of Texas, whose principal tribe was that of the Assinais.** Waitz

The Natchez lived under an absolute monarchy, and the royal family, descendants of the Sun, stood high above the common people, like the family of the Incas of Peru. American Sun-worship found its highest development among the Mexicans and Peruvians. These races at the period of their coming in contact with Europeans were no longer savages, but civilized nations in the strict sense of the word, and capable of still further native development.

"the truest and most definite expres-

with a theogratic form of government."

of a Cortez and a Pizarro, and later purposely, persistently and violently stamped out by the barbarities of

This civilization would have produced

Christian tyrants.

Although polytheism was fully dethe Sun was their Supreme Deity, especially among the Toltecs, who were the authors of all Mexican cult-Mexico One explanation accounts for this by supposing that this religion had its origin among several diverse nations who coalesced into one, each importing its own religious ideas. But this supposition cannot had for neighbors the Natchez of be established on historical grounds, nor is it at all necessary. We have already more than once remarked that the worship of spirits and the worship of material objects are developed simultaneously and side-by-side. The one *never* arises alone, and unaccompanied by the other. The development of spirit-worship advances pari passu with that of matter-worship. Wherever the latter as-

1 Schoolcraft, I. 399.

Castañeda, Relation du Voy. de Cibola (1540), éd. Ternaux. Par. 1838, p. 299 seqq.; Herrera, VI. 9, 14.

^{*} Strachey, Hist. of Trav. into Virginia Lond. 1849, p. 93. Britannia.

[†] Nuttall, 95.

[§] Journal étranger, 1762, Mai p. 7, ap. Waitz, III. 182.

[🖫] Rivera, Diario y Derrotero de la Visita general de los Presidios de N. España. Gua-temala, 1736 : Villa-Señor, Teatro Americano, Descr. gen. de Tos Reynos y Provinc. de la N. España. Mex. 1746. (7. Waitz, IV. 227. ** Waitz, HI. 219 ff.

^{* (}f. Prescott, Conq. Mex. I.; Waitz, IV. S. 1-180; Wuttke, Gesch, d. Heidenth, S. 251-299; D. Fr. Saverio Clavigero, Hist. Antig. de Megico, sacada de los mejores historiadores españoles y de los manuscritos y de las pinturas indias, etc. Londres, 1826.

sumes the form of Sun-worship, the we see from all their myths. At the former becomes a complex polythe- solemn naming of the new-born inism; hence we find in the religion of fant, when ceremonies were used havself.

other gods is shown in the Mexican that live, and thou Earth, our Mother, children." This myth is given in full: "By the life of the Sun and of our by Clavigero,* but we need here re- Lady, the Earth." fer only to that portion which speaks of the heroes or demigods (heroes o preme honor to the Sun, and made semidioses), who, prior to the appear- him the object of constant observation, ance of the Sun, ruled over men, and gained an astonishing degree of acrun his course; but seeing that they course. All who have studied the could not make head against him, matter are agreed ‡ that the Mexisuch of them as had not already been cans, who used sun-dials, calculated slain by the Sun made away with the length of the solar year with the themselves, leaving him sole master, utmost possible exactitude. First, Quetzalcoatl, a sort of Mexican their year consisted of 18 months Christ,† is said to have been created having 20 days each—360 days. To by the breath of Tonacateotl, the the last month they added 5 days, Sun.‡ Whereas offerings were made which they called *nemontemi*, unemchapopotli § (called by Clavigero be- Clavigero, | "that the difference of pearance with music. conception of the Sun was anthropopathic though a most exalted one

† Cf. Waitz, IV. 141 f.

! *Ib.*, p. 260.

Mexico not two incongruous elements, ing a strange resemblance to those but rather the regular combination of accompanying the baptismal rite in two lines of objects of worship which Christian churches—as, for instance, constitute the inception of religious their sprinkling the babe with water development in the mind of man, and then entreating the deity "that We have no need, therefore, of sup- he would cause these holy drops of posing that the Mexican religion water to wash away the sin which became from different peoples: its two came the infant's heritage before the phases are rather the genuine prod- creation of the world, to the end that ucts of the Mexican understanding it- the babe might be born anew "*—the mother thus addressed the Sun and The Sun's preëminence over the the Earth: "Thou Sun, Father of all myth which traced the origin of the take ye this child and guard it as Sun, as also in the fact that the Mex-your son."† They often employed icans called themselves "the Sun's this solemn form of asseveration,

The Mexicans, who thus paid suopposed that god when he began to curacy in their knowledge of his to the other gods only four times ployed, as they did nothing on those a day, in the morning, at noon, in the days but pay visits. § "But what is evening and at midnight, there were most wonderful in their reckonings, nine daily offerings to the sun, four and what will appear scarce credible by day and five through the night, of to those who are unacquainted with copal or other fragrant gum, such as Mexican antiquities, is this," says tun judaico, asphaltum). They of some hours between the civil and the fered also quails to the Sun at his solar years was noted by them, and rising, and solemnly greeted his ap-that they resorted to intercalation to That their equalize them. There was, however,

^{*} Lib. VI. p. 228, Apoteosis del Sol v de la Luna.

t Kingsborough, Antiq. of Mex. Lond.,

^{*} Vide Prescott, I.

[†] Clavigero, p. 290: Tú, sol, decia la partera, padre de todos los vivientes, y tú, tierra, nuestra madre, acoged á este nino y protegedlo como á hijo vuestro.

[‡] Cf. Prescott, 1.: Waitz, IV. 174.

^{1831,} V. 135, 184.

§ Clavigero, VI. 251: Al sol incensaban logica de los Dos Piedras. Mejico, 1832, H.

[|] Libro, VI. p. 269.

and that of Julius Caesar which is word, Metzli, served to express both adopted for the Roman Calendar, this month and moon, are evidences of an difference, that instead of intercalating earlier computation by Moons, which one day every fourth year, they added in fact Echevarria asserts to have been 13 days every fifty-second "They waited," says Prescott, "till ing." the expiration of 52 years, when they interposed 13 days, or rather 12 days tance for computing time, so too did and a half, this being the number that her worship decline. She came to be had fallen in arrear. Had they in-regarded as the wife of the Sun, as serted 13, it would have been too much, since the annual excess over 365 is about 11 minutes less than 6 hours. But as their calendar, at the time of the Conquest, was found to correspond with the European (making allowance for the subsequent Gregorian reform), they would seem to have adopted the shorter period of 12 days and a half, which brought them within an almost inappreciable fraction, to the exact length of the solar year, as established by the most accurate observations. (Cf. La Place; Exposition, p. 350.) Indeed, the intercalation of 25 days in every 104 years, shows a nicer adjustment of civil to solar time than is presented by any European calendar; since more than 5 centuries must elapse, before the loss of an entire day.* Such was the astonishing precision, displayed by the Aztecs, or, perhaps, by their more polished Toltec predecessors, in these computations, so difficult as to have baffled, till a comparatively recent period, the most enlightened nations of Christendom!"

In addition to their solar year they had also a sacerdotal, or, so to speak, an ecclesiastical year of 20 times 13 days, and this year was called the Metzlapohualli (Lunar Reckoning), as distinguished from the civil year Tonalpohualli (Solar Reckoning).† This religious computation of time, which served to regulate the festivals,

between their mode of intercalation as also the circumstance that one year, their more ancient mode of reckon-

But even as the Moon lost importhe Stars were his sisters.† As for her eclipses, the true cause of which they very probably recognized, ‡ they were not regarded with the same emotions as by savages.§ Amid the countless temples and chapels of Mexico two were specially famous, the great temple of the Sun, and the smaller temple of the Moon at Teotibuacan, and around each of these stood a cluster of minor temples, probably dedicated to the worship of the Stars. || The planet Venus had a temple called Ilhuicatitlan. The Stars were objects especially of astrological observation, and were consulted with regard to the most trifling domestic affairs as well as the weightiest concerns of the State; ** even the kings were attentive observers of the stars, and one of them, Nezahualcoiotl, built for his own use an observatory.

The Mexican State was a carefully articulated organism, down even to its minutest subdivisions. The affairs of the army, the revenues, the courts of instice, the police, etc., were thoroughly organized. The king, vicegerent of God on earth, was possessed of powers limited only by divine authority and the prescriptions of religion. prayers addressed by him to the deity, to obtain strength and light for the discharge of his important duties, sound like some of David's Psalms.

^{*} Gama, parte 1, p. 23. El corto exceso de 4 hor. 38 min. 40 seg., que hay de mas de los 25 dias en el periodo de 104 años, no puede componer un dia entero, hasta que pasen mas de cinco de estos periodos máximos ó 538 años. † Cf. Waitz, IV. 174.

^{*} De Echevarria y Veitia, Hist. del Origen de las Gentes que poblaron la N. España (Ap. Kingsborough, VIII.) 1, 4, † C. Waitz, IV. 154.

[†] Humboldt, Vues des Cordillères, 282; Prescott, I.

[§] Kingsborough, V. 156. Clavigero, L. 247 seq.

[¶] Clavigero, p. 244.

^{**} Ibid. 1. 200 seqq. 271, 291, etc.

No Jewish prophet could use more authors suppose; Tezcuco was of impressive language than this, adequal magnitude; Tzimpantzinco had dressed to a Mexican King: * "Graciously and meekly receive all who come to you in anguish and distress; neither speak nor act from passion. Calmly and patiently listen to the complaints and reports that are brought to you. Silence not the speaker, for you are God's image, and his representative: he dwells in you, using you as the organ (flute) through which he speaks; and he hears through your ears. Punish no man without cause, for the right of inflicting punishment, which you hold, is of God :- it is as it were the talons and the teeth of God. to execute justice. Be just, and let who will be offended; for such is God's decree. Be it your care that in the tribunals all things be done according to order, and without precipitancy, and nothing in passion. Let it never enter your heart, to say, I am Master, and will do as I please; for that would tend to destroy your power, lower you in men's esteem, and impair your royal majesty. Suffer not your power and dignity to be to you the occasion of pride and arrogance, but let them rather remind you of the lowliness from which you have been raised, without any merit of yours. Be not given to sleep, nor to indolence and sensuality, nor to reveling. Squander not the sweat and the toil of your subjects. The favor which God has shown you, abuse not for profane and senseless purposes. Our Lord and King! God has his eye upon the rulers of States, and when they commit a fault, he laughs in scorn, but is silent: for he is God, and does what he will, and derides whom he will: for he holds us in his hand, tosses us from side to side, laughing at us when we totter and fall."

The material progress of the Mexican nation may be judged by the The number and size of the cities. city of Mexico had from fifty to sixty thousand families, or houses, as some

20,000; Cholula, Huexocinco and Tepeaca, each 40,000; Xochimilco 80,000; According to Cortez himself Tlascala was in every respect a more opulent place than Granada in Spain. These cities all possessed buildings of considerable magnificence, and there were besides a number of smaller cities.*

The earnestness of their moral sentiments is evinced by the rigid discipline enforced as well in their domestic education as in that of their schools and seminaries, and by the exhortations, the prayers and the proverbs which were learned by rote. "Nothing," says Padre Acosta, "astonished me more or appeared to me more praiseworthy and notable, than the system followed by the Mexicans in the education of their children." "In truth it were difficult to find a nation," adds Clavigero, "that bestows more diligent care than they upon a matter which so nearly concerns the well-being of the state. Doubtless," he continues, "they disfigured their teaching with superstitions; but still the zeal they showed for education might well put to shame many a father of a family in Europe: and many of the instructions which they gave to the pupils would make profitable reading for our own young people." †

As a specimen of these I give the exhortation addressed by a Mexican to his son, which is admitted to be genuine by all the critics: # "My son, you came forth out of your mother's

^{*} Cf. Waitz, IV. 93. † Clavigero, I. 200.

^{† 1} translate it from Clavigero's work (ubi supra). He says it came to his hands from those of Motolinia, Olmos and Sahagun, missionaries in Mexico, perfect masters of the language, and zealous students of Mexican manners, etc. Besides this address of the father to his son, Clavigero gives a similar address of the mother to her daughter, to be found in Prescott (Append. II.), and which is even a more charming composition than the address given in the text. (See the latter also in Waitz, IV. 125, who takes it from Sahagun, Hist. de N. España, VI. 18.)

^{*} Sahagun, ap. Waitz, IV. 68.

as you grow you are like the chick tections may avail the more. When preparing for your flight over the any man addresses you, listen to him earth, nor is it given us to know how attentively and with proper demeanor, jewel which we possess in you, ing your mantle, nor spitting out, nor ingly to God for his support. It was and bad breeding. When you are

womb as the chick from the egg, and speak not arrogantly, that your corlong Heaven will insure to us the neither shuffling your feet, nor munch-However that may be, be it your care jumping up every moment if you are to lead a correct life, praying unceas- seated; for such conduct shows levity he that created you, and he is your seated at table, eat not ravenously. owner. He is your Father, and loves 'nor betray signs of displeasure, if any you more than I. Turn your thoughts dish fails to please you. If any one God-ward, and let your aspirations comes in while you are at table rise to him by day and by night, share with him what you have, and Honor and greet those who are older, when one sits at your board, fix not than yourself, and never give them your gaze upon him. When you go tokens of contempt. Be not deaf for out, keep your eyes directed forward the poor and the unfortunate, but lest you hustle against those you meet. rather make haste to console them When any one approaches you, walkwith kindly words. Pay respect to ing on the same path, give place a litall men, especially your parents, to tle that he may have room to pass. whom you owe obedience, reverence Never walk in advance of your supeand dutiful service. Have a care riors, except when necessity requires never to follow the examples of those that you should, or they command it. wayward boys, who are like wild When you eat in company with them, beasts void of reason, and who do serve them with whatever they wish, not respect those who have given and so you will gain their favor. If them their being, nor heed their ad- a man make you a gift, receive it with monitions, nor submit to correction: tokens of gratitude: if the gift is of for whoso walks his own ways will great value, be not vain of it: if it is come to a disastrous end, dving in trifling, do not despise it, nor grow blank despair: he will either be angry, nor anger the man who does hurled down a precipice, or will fall you a friendly act. If you are rich, under the claws of wild beasts. Make be not supercilious toward the poor not merry, my son, over the aged, nor and the needy: for the gods who reover those who have any bodily de- fused riches to others in order to befect. Mock not those who happen to stow them on you, disgusted at your make a misstep, nor reproach them arrogance, may strip you of them, and therewith; on the contrary be hum-give them to others. Live by the ble, and fear lest what offends you in fruits of your labor, and then your others become your own. Go not bread will taste sweet. Hitherto, my whither you are not invited, nor med-son, I have supported you with the dle in affairs which are none of yours, sweat of my brow and I have dis-In all that you say, and in all that charged all the duties of a father: I you do, be it your study to show your have given you the necessaries of life, good breeding. When you converse without wronging any man. Do you with any one, do not annoy him with the same. Never tell a lie, for lying is your hands (mit den Händen beläs- a grievous sin. Whenever you recount tigen) nor be too voluble: do not in- to another what you yourself have terrupt or disturb others with your re- heard, then tell the simple truth withmarks. If perchance you hear a man out adding anything. Speak not evil speaking foolishly, and it is not your of any man. Conceal the misconduct business to correct him, hold your of others, unless it be your duty to peace: but if it is your business, then mend it. Avoid gossiping, sow not consider first what you will say, and the seeds of discord. If you are the

dissensions and disagreements, which vou could only regret. Tarry not in ful, for such places afford frequent temptations to debauchery. If an office is tendered you, regard the offer as made with a view to test you: therefore do not accept at once, even though you know you are more capable than others; but excuse yourself, you will be all the more esteemed. Keep your passions in check, else the gods will be angered with you and cover you with disgrace. Repress your sensual desires, my son, for you are still young; and patiently await the time when the maid, whom the gods have chosen for your wife, shall have reached the required Leave such concerns to the care of the gods; they will do what is best for you. When the time comes for you to marry take no step without your parents' consent, else you will meet with an evil end. Steal not, rob not, if you would not disgrace your parents: it is your duty rather to reflect honor upon them and to show that they brought you up properly. That is all, my son; I have discharged my duty as father. It was my purpose to confirm you in good dispositions by this instruction. Do not despise my words: for your happiness through life depends upon your fidel-

Prescott gives a number of Mexican proverbs,* which, according to him, may compare with any found in the moral codes of antiquity. He discovers in the following admonition "a most striking resemblance to Holy Writ": "Regard not curiously the walk and demeanor of the great, nor of women, especially married wo-

bearer of a message to any one, and men, for the old proverb says: Whoso he grows angry, and he vituperates regards a woman with curiosity, comthe sender of the message, do not mits adultery with his eyes." * Montake back that reply, but strive rather ogamy was the rule amongst the to deprive it of its harshness, and if Mexicans, and in this respect they possible say not a word of what you came up to that moral standard of have heard so that there may not be marriage with which we are familiar. Nor was the idea they had of their gods unworthy of their moral code, the market-place longer than is need- and Clavigero, who compares Grecian and Roman Mythology with that of Mexico, thus expresses himself: "There is not to be found anywhere Mexican Mythology a trace of in those immoralities with which other nations have disgraced their gods. The Mexicans paid homage to virtue until they oblige you to accept: thus rather than to vice, in the objects of their religious veneration: in Huitzilapochli they honored valor; in Centeotl and others, benevolence: in Quetzalcoatl, chastity, justice and prudence. Though their gods were of both sexes, still they did not marry them to one another, nor did they attribute to them that love of obscenity with which the Greeks and Romans credited their gods. They represented them as averse to all kind of vicious indulgence and hence their worship was intended merely to appease the wrath of the gods, excited by the sins of mankind, and to secure their protection by repentance and religious service." It is no wonder if so enlightened a religious system as this surprised the Christian priests; and the latter would no doubt have preferred to find it of a lower type. The language of Mexico, rich in metaphysical and moral expressions, opposed no obstacle to the teaching of the Christian Doctrine, and Clavigero gives specimens of the writings of 84 European and Creole authors "who treated of Christian Doctrine and morals in the languages of Anahuac," as also a list of 49 Autores de Gramaticas y

^{*} Sahagun, VI. 22. Tampoco mires con curiosidad el gesto y disposicion de la gente principal, mayormente de las mugeres, y sobre todo de las casadas, porque dice el refran, que él que curiosamente mira à la muger adultera con la vista.

Diccionatios de las lenguas de An-'and in it was also discovered the faahuac.*

to do away with the human sacrifices mala and Nicaragua † stand on the which were so frequent in Mexico, same level with Mexico, as regards but without success, and the attempt religion and culture. The Peruvians, only served to show him how difficult, who were the equals of the Mexicans it is to convince the people of the in intellectual and material advance-falsity of ancient religious notions ment, surpassed them perhaps in moral which have taken root in their affect culture. tions. We may justly reproach the is for so either good or evil, but owes except perhaps Pachaeamae, its moral quality to the motive which vious to the Inca period the Peruvians icans offered to the gods the most Garcilasso, who attributes to them all themselves, human beings. No ani- that Sun-worship was introduced by And is not the protoundest teaching time of the Incas, having been intro-of Christianity based on that last and duced by the Aymaras, "the predegreatest human sacrifice? Hence cessors and teachers of the Inca-Peruthe motive which led them to offer vians." But the Incas, to whose human victims was the profound family Garcilasso belonged, had an earnestness of their religious convictinterest in ascribing to themselves the tions. Besides, as the Mexicans sac- honor of having been the founders of rificed only condemned criminals and the State and of the religion of Peru. prisoners of war, Montezuma could The story which they told in confirmwith some show of reason excuse ation of their claim is characteristic. this custom, as he did, by saying to "The Sun, our Father, seeing the Cortez: "We have the right, as you pitiable condition of mankind, was also have, of slaving our foes in moved to compassion and sent to them battle. Where, then, is the injustice from heaven two of his children, a son

of Gods, was to be expected. The live like rational creatures, to acquire Mexicans appear to have been largely culture, to dwell in houses, to inhabit given to Animal-fetichism. It in-cities, till the soil, cultivate plants, as also the butterfly and other insects.‡ A grave containing the bones of some unknown animal, was found in 1790.

mous Calendar-Stone.*

King Nezahualcoiotl endeavored Oajaca, Chiapas, Yucatan, Guate-

Although the Peruvians, no less than Mexicans with their religious fanati- the Mexicans, worshiped a multitude cism as displayed in these sacrifices: of gods \ they too held the Sun to be but we must not charge them with supreme, none of the other gods cominhuman cruelty. In fact no action ing near him in sanctity or eminence, prompts it; and the same is to be were by no means such sayages as said of human sacrifice. The Mex- they are represented to have been by precious goods they possessed, viz., kinds of fetichism, and who asserts mal could suffice, and man alone was the Incas. On the contrary, the Sun the becoming victim to atone for sin, was worshiped in Peru, before the if we sacrifice in honor of our gods and a daughter, to teach them how to men already doomed to death?" † do him honor, and pay him divine That we should find remnants of worship. These two children of the the lower grades of fetichism in com-pany with the worship of the Sun and to men, and to direct them how to cluded the frog, the God of fishery, save the harvest, breed cattle, enjoy

^{*} Clavigero, 11, 394.

^{*} Clavigero, Tom. H. Append. VIII.

I Rictos Antiguos, Sacrificios e Idolatrias de los Ind. de la N. Esp. p. un frayle menor (1541) (ap. Kingsborough, IX.) 21; Gomara, 444.

^{*} Gama, I. 12.

[†] C/. Waitz, IV. 312. † Prescott, Conq. of Peru, I. Book 1; Wuttke, Gesch. d. H. L. S. 303-336; Waitz, IV. 378–477 : Garcilasso de la Vega, Hist. Gen. del Peru. Cordova, 1617.

[§] C7. Waitz, IV. 452 seqq.

¶ Waitz, IV. 447.

[¶] Garcilasso, I. c. XV. XVI,

It having pleased the Sun, our Father, these, he let them down upon the earth in the neighborhood of Lake Titicaca. bidding them to go whithersoever they would. They were however instructed to drive into the earth a golden staff wherever they thought of establishing their residence in any particular spot: if the staff on the first blow sank into the earth, it was the will of the Sun, our Father, that they should settle there. On coming to the spot where Cuzco was afterwards founded, the sign which had been foretold was The savages soon begiven to them. gan to flock around them, gazing with wonder on the pair, who were arraved in the precious apparel of the Sun, and who, no less by their speech than by the majesty of their countenance, gave evidence that they were the children of the Sun. Then the Inca instructed the men in all needful arts, such as house-building and agriculture; while his sister and spouse gave instruction to the women in all kinds of feminine work, such as needlework, and the weaving of cotton and woolen cloth. the making of garments, etc. Furthermore, they both taught the natives the worship of the Sun, their Father."

Thus the Sun was worshiped, and we have now to ascertain in what light they regarded this object of religious veneration. Man can attribute to any object only those notions which to reward him for his toil. he already possesses. The higher then his development, in an intellectual and in a moral sense, the nobler will be the conception he has of the object which he takes for his supreme ideal. The Peruvian will regard the Sun as combining all those virtues and properties which he has himself.

They were an industrious and an ingenious people. Agriculture formed the basis of the commonwealth, and was pursued with the greatest dili-

the benefits derived from all these gence and skill. No spot of ground sources, prepare the products of the was untilled, maize and potatoes besoil for food: in a word, their mission ing the chief products of the soil.* was to teach the people how to live Even the stony sides of the mountlike men, rather than like wild beasts, ains were turned into blooming gardens, by means of terracing, artificial to give his children such commands as irrigation and the use of guano as manure. They produced excellent cotton and woolen fabrics, and their metal manufactures, in gold, silver, copper and tin (they had no iron) bore the stamp of skillful workmanship. Every part of the country was connected with Cuzco, the capital, by means of excellent highways, some paved, others macadamized,† having well-constructed bridges, a service of posts and a sort of telegraphic system. The latter enabled them to send dispatches a distance of 900 miles in three or four hours.‡ Cuzco had a population of 200,000 souls, exclusive of an equal number dwelling in its suburbs. The other cities were smaller, and yet had a considerable population.\(\frac{1}{2}\) By means of a division of the population into decads the most exemplary order was maintained. The entire population formed one family, the Inca being its head. labored and earned for the good of The state, not the individual, was all. an owner of property. Hence none were rich, but also none were poor. The contrast between proprietors and non-proprietors was done away, and all enjoyed prosperity. There were neither beggars nor drones.¶ citizen's obligation to labor was correlative with that of the state, which owned his labor and its total product, Under the guardian rule of the Incas, whose duties were prescribed to them by the Sun their Father, and who but rarely, as history attests, failed to exercise a paternal care for the commonwealth, the people lived in peace and happiness. Each conquered nation were

^{*} Prescott, I.

[†] Waitz, IV. 429. ‡ Garcilasso, VI. c. 7; Wuttke, I. 334. § C. Waitz, IV. 424.

^{||} Prescott, I.

[¶] Ib. I.

FETTCHISM.

rights and privileges of their conquer- gard to that of the Mexicans. Humofs. Indeed, it was the desire to ex-boldt * says that the year was made tend civilization that led them to un- up of 12 lunar months, giving a total dertake wars of conquest.*

tion of the empire must have had days were added at the end of each many defects, and that it hindered individual development, as well as were 12 intercalary days, one being tayored the abuse of power by a tyrannical Inca. It was for the interest of the Incas to keep the people in subjection, and hence they cut them off too jealously from all intellectual culture, the possession of which they reserved for themselves alone.

A state organized on such principle cannot subsist without a morality quite free from selfishness, that root of all evil. Their family-life was chaste and pure; their women were not chattels, as among savages, but persons who, as represented in the virgins of the Sun, held a high position in the ceremonies of religion. Intellectual culture, in the sense of erudition, was restricted to the Inca caste: still the education of the people was a function of the state. The picturewriting of the Mexicans was here replaced by that curious contrivance, the quipu,† which was employed by many scholars, and also, but in a less degree, by the people generally. Garcilasso speaks of maps of the whole country and of particular districts and of charts of cities. The learned class did not, as in Mexico, belong exclusively to the priesthood, and they were classed as astrologers, physicians, botanists, poets, designers, painters, etc.‡ The Quechua, like the Mexican language, contained a number of very abstract terms, such as spirit, thought, ctimal, etc., which will enable us to form some notion of the degree of mental development attained by this people.\$

As to the Peruvian mode of reckoning time we have not the same accu-

immediately allowed to share the rate information as we have with rertake wars of conquest.* of 354d, 8h, 48m, ; and according to It is evident that such a constitu- Rivero and Tschudi,† 11 intercalary year, but according to Herrera ‡ there added at the end of each month. In the face of these statements Desjardins \$ maintains that the Peruvian computation was more exact than the Mexican, and Montesinos | speaks of very precise intercalations, and of cycles of 10, of 100 and 1000 years. But Waitz has strong doubts as to these statements.

> Prescott ranks the Peruvians above the Mexicans for skillful workmanship in house-building, tillage, and the construction of roads and canals. Their inferiority to the Mexicans in intellectual culture—for instance, in astronomy—he strives to explain by showing that the Mexicans owed their intellectual advancement, not to their own native qualities, but to that mysterious Toltec stock, which the eve of history fails to discern, and which Prescott supposes to have been equaled by the Peruvians in all other departments of culture.

> Among a people, who have reached so high a degree of moral and intellectual development, the ideal object of worship must exhibit these moral characteristics in the highest degree. And such is here the case, for the Peruvians regarded the Sun "on the one hand, according to his position in Nature, as the great Power of the universe which upholds all things (a mere heavenly body); but on the other hand (anthropopathically) as a spiritual power, having mind and will. Not that there was supposed to be any spiritual object whose symbol

In. I. 4 Ct. Waitz, IV. 470.

^{1 / 473.}

^{§ 76.}

^{*} Vues des Cordillères, 129.

[†] Riv. y Tschudi, Antig. Peruanas, Viena, 1851, p. 127.

Herrera, V. 4, 5.

[§] Desj. Le Pérou avant la Conq. Espagn.

Par. 1858, p. 122.

Ar. Waitz, IV. 474.

Prescott, Peru, I.

ship was not a spirit inhabiting the Sun); but the bright luminary itself (in his own proper form and shape) was truly and really the deity, though not as a simple, soulless sphere, but as a divine and animated body, imparting to all things around him light and life." * When once a monk expounded the Christian doctrine to the Inca Atahuallpa, and asked him to renounce his faith, the eyes of the prince flashed fire, and he exclaimed: "I will never change my faith. Your God was, as you say, put to death by the men he himself had created. my God," said he, pointing to the Sun which was then setting in full splendor behind the mountains, "my God lives in the heavens, and looks down upon his children." † When the Sun sent his children down upon the earth he thus addressed them: "My children, when you have subjected these people to our obedience, it must be your study to hold them by the laws of reason, of piety, of mercy and of justice, doing for them all that a father is wont to do for the children whom he has begotten and whom he tenderly loves. Herein you will follow my example, for, as you know, I never cease to do good to all mortals. I illumine them with my light, to the end they may see and go about their affairs: when they are cold, I warm them; I make their fields and their meadows productive, bring forth fruit on their trees, increase their herds and send them rain and fair weather as need may be. Further, I journey around the world daily, to see what the earth needs, and to restore all things to order, for the comfort of its inhabitants. Therefore it is my will that ye follow my example, as most dear children, whom I send on earth for the welfare and the instruction of these poor men, who live like beasts. Hence I give you the title of kings, and I desire that your kingdom be extended over all the

was the Sun (i.e., the object of wor- nations whom ve shall instruct in right principles and good morals, especially by your example and mild rule." * Through reverence for the Sun, even the Inca durst not look upon its face.†

The offerings made to the Sun consisted, besides the morning prayer, at his rising, of a libation (as among the Persians); then of fruits, herbs, flowers and animals, llamas especially. Garcilasso expressly denies that they offered human sacrifices, and often mentions the laws which forbade the sacrifice of captives: still other accounts render it tolerably certain that on high festivals they sacrificed a child or a beautiful maiden.

Where Sun-worship is so highly developed, the worship of the other heavenly bodies holds a very subordinate position. They worshiped the Moon as the Sun's sister and spouse, and the stars (among which Venus and the Pleiades were specially observed) § were considered as their suite. The most famous temple in Peru was that of the Sun, at Cuzco, which, on account of its fabulously rich endowments, was called Coricancha-Place of Gold; and the temple next in renown was that of Pachacamae, also at Cuzco. Temple of the Sun included a chapel plated all over with silver, and dedicated to the Moon, as also three other chapels, richly plated with gold and silver, and sacred to the Stars, to Thunder and Lightning, and to the Rainbow.

With the Peruvians we may class, from the religious point of view, first the Araucanians,** who dwell to the south, in Chile, and who reckoned a solar year of 12 months, each month having 30 days, and five days being intercalated through the year. They were able to determine the time of

^{*} Wuttke, I. 306 seq.

[†] Prescott, I. 3.

^{*} Garcilasso, I, lib. I. c. XV.

[†] *Ib*. IX. c. X.

[‡] Ib. II. c. VIII.

^{\$} Cf. Waitz, IV. 475. || Prescott, I.

^{**} Cf. Waitz, III. 515 ff.

the solstices from the length of shad-(That the people who stand on this ows. Then came a very advanced stage of fetichism are, from a mental people, of higher culture than the and moral point of view, very ad-Araucanians, viz., the Chibchas,* and vanced, follows from what has been altheir kinsmen, living in New Granada, ready said. As representatives of this a country whose antiquities bespeak stage we might cite the Persians, as for its inhabitants a relatively high described by Herodotus; also the Chidegree of culture in very early times, nesc. Among the Chibchas the Sun held "To erect statues of the gods, althe same important position as among tars and temples," says Herodotus, the Peruvians. There is no evidence "is not the custom of the Persians, to show that they imported from Peru- and indeed they reproach those who their religion and their intellectual do so with folly, and this, as it appears culture, but rather everything tends to me, for the reason that they do not to prove that their development was believe, as do the Greeks, that the of native growth.

7. The Worship of the Heavens.

by all men on the basis of the exter- the sun and the moon; to the earth, nal appearances, the heavenly bodies pass for bright points fixed in the Persians have no holocausts, no libablue vault of the sky, rather than for tions, no meat-offering, no flutes, no spheres free-poised in infinite space. Sun, moon and stars are only parts of ever would sacrifice to one of these Hence, howsothe celestial vault. ever they may differ from one another, still essentially they are of equal value, being all celestial. The suprem- prays to the god to whom he is about acy therefore does not belong to this to make the offering. Still he prays not or to that one body, but to the entire firmament. It is therefore really no new standpoint, but rather the sum of the data already obtained, if now the religious consciousness considers no longer the sun, the moon, or the stars, but the sum-total of them all, the celestial vault, the sky itself, as the supreme fetich, the supreme god. here too, as in all the objects of fetich-worship, it is the vault of heaven, as such, anthropopathically apprehended, and not any god supposed to be symbolized by it, that receives religious honors. But this worship of the entire heavens does by no means interfere with the worship of the individual heavenly bodies, but rather, on the contrary, favors it. Sun, moon and stars may each receive its peculiar worship and sacrifice; but no one of them has the absolute ascendency.

gods are anthropomorphic. On the contrary, they are wont to sacrifice to Zeus on the summits of high mountains, and to invoke the entire celestial In the view taken of the heavens vault as Zeus. They also sacrifice to to fire and to the winds. The garlands, no barley cakes: but whogods puts a crown of myrtle around his tiara, conducts the animal to some place free from pollution, and there for himself alone, but prays rather that it may be well with all Persians and with the king. Then the animal is slain, cut up, seethed, and afterward spread upon the green sweet grass; the Magi then chaunt a song of consecration, standing by the side of the one who makes the offering, and the latter finally takes the flesh home, to make such use of it as he may wish. The Persians believe that the gods desire only the soul of the beast as a sacrifice, disdaining the flesh: hence they do not burn the flesh, lest they should pollute the fire, which is sacred to the gods: nay, even one durst not even blow on the fire, to quicken it, for that is an offense that is punished with death. As they make offerings to fire, so too do they to water, betaking themselves to some lake, or river, or fountain, and digging a trench in the vicinity, lest the blood should defile the water. There they

^{*} Ib. IV. 532 ff.

on sprigs of bay or myrtle; the magi, who are present, make libations of oil. milk or honey, and chaunt a sacred song; and the sacrificant takes away the flesh of the victim." This conception of sacrifice, where only the soul of the victim is accepted by the gods, gods as defined by Herodotus himself) shows that the Persians no longer viewed their gods from the gross materialistic point of view, and subordinated the material to the spiritual. Their praying for all Persians and not for themselves individually is evidence that they stood high above the egotism of the savage, who cares only for himself.

As objects of religious contemplation, the sky is regarded as the Father, the Earth the Mother of all things by the Chinese, the religious views of the masses being but little affected by the more philosophical and abstract speculations of their later teachers.* Yang, the Sky, is procreative, strong, masculine; Yu, the Earth, is conceptive, weakly, feminine.† All things are the products of these two. soon as Yu and Yang unite, an actual existence results, and this is the work of Heaven and Earth." ‡ That this Sky-worship is most intimately connected with Sun-worship, nay, even that it derives its origin from Sunworship, appears to be beyond ques-The Y-King, for instance, says that Yang makes his most perfect apparition in the Sun.\$ The movement of Yang, again says the Y-King, is in a circle, being accelerated from the beginning of spring until the solstice, and then retarded. He consists of an extremely subtle matter, invisible to our eyes, but yet most real, and has a fixed and never ceasing circular motion; and his form is spherical,

slay the victim, and spread the pieces whereas that of the earth is angular, and therefore less capable of motion."

FETICHISM.

In the Spring and Summer, when the quickening power of the heavens is greatest, Yang bears sway, but in Autumn and Winter, when the quiescent earth predominates, Yu assumes rule. Yang is lord of the day, culminating at noon, and then gradually vielding to Yu, who rules the night. these functions of Yang belong more properly to the Sun than to the Sky.

"Wherever," says Wuttke, # "in accordance with our habits of thought. we expect to find mention of God in Chinese writings, it is always the Sky that we find named, sometimes Sky and Earth, but more commonly the Sky alone. And the Sky which is meant is the visible heavens, whose apparent revolution around the earth is held to be the cause of all life and movement. Sun, Moon and Stars are set in this blue Sky, which is the manifestation of deity." Uninfluenced by the nice distinctions which the philosophers of China have made as to the essence of the Heavens the popular mind takes the anthropopathic view, which, however, as was to have been expected of a people so advanced in moral culture as the Chinese, attributes to the Sky only the noblest and sublimest characteristics. They give to the Heavens the name Shang-to, "Sublime Ruler, Supreme Lord." \$ He is almighty and omnipresent. His all-embracing love is shown in the saying: "The Sublime Ruler of the Universe is to be feared and reverenced: he hates none. Who durst say that He hates any man?" | His justice is not to be bribed, and is as immutable as his celestial movement; great is his wrath against the unjust; ¶ from

^{*} Cf. Wuttke, Gesch. des II. Bd. II. S. 1-Bluntschli, Altasiatische Gottes-u. 208; Weltideen S. 135-164; le Chou-King par Confucius, trad. par P. Gaubil, revu par M. de Guignes. Par. 1770, p. 88-150.

t Y-King, ex Interpr. Regis. Ed. Mohl, 1834, I. p. 165–169, II. p. 381. ‡ 16. II. 547.

^{§ 1}b. II. 406.

^{* 16.} II. 385 seq.; I. 203. † 16. I. 196, 214; Tschu-hi, übersetzt von Neumann, in Illgen's Zeitschr. 1837, Bd. I. 56, 74, 82. ‡ H. S. 25.

S Chou-King, p. 13, Note 7; Y-King, II. p.

Confucii Chi-King, s. Liber Carminum, ex Lat. P. Lacharme Interpr. Ed. Jul. Mohl. Stuttg. 1830, II. 4, 8.

^{¶ 16.} II. 4, 8; II. 5, 1.

108 FETICHISM.

And these things are all predicative of the blue vault above our heads, v.g. "O blue Sky, look down with scorn upon the proud, and have pity on the unfortunate," is a Chinese prayer.† The Sky so considered is man's moral l prototype, which he must reproduce in his own life. "His four properties set torth the ideal of a prince: he is so great, that he encompasses all things; so mighty that he creates all things; so orderly that he adapts all things to their ends; so persistent cund principle, and so it fashions for that he never stands still, never ceases itself notions of spirits and gods on to be." ‡ The Sky is the supreme lord, purely empiric grounds. Hence in He requires of man perfect righteous. China, besides sky-worship there is a ness and sinlessness. Being omni-complex system of Spirit-worship and scient he knows when a man is guilty polytheism. ‡ In addition to the Anof sin. His wrath is enkindled cestral Spirits, which are the principal against all injustice, and he manifests objects of veneration, there are the it on occasion by celestial phenom- Celestial Spirits, which dwell in the ena and by the convulsions of Nature, heavenly bodies, in the Sun, the which are thus brought into relations. Moon, the Stars, the Earth; on mounwith the moral life of man. Eclipses tains, in rivers; in the thunder and of Sun and Moon, earthquakes, thun- in the winds. There are the guarder and lightning and the other grave dian Spirits of families, of houses, of phenomena of Nature are warnings communities, of cities, of provinces, sent from Heaven to man. Crops of agriculture, etc., and we find menfail on account of the sins of the peo- tion of these even in remote times: ple or of their rulers. "When virtue vet they rank so far beneath the Sky reigns," says Kitse in the 12th century that by an ancient law it was forbid-B.C., "the rain falls betimes; when den to make offerings to them such the sovereign rules justly, there is as were made to the Sky, and it was fair weather, etc.; when sin reigns, allowed only to make them gifts of the rain falls incessantly, or else there food, and to show them a limited is a drought," etc. The guilty are amount of reverence. oftentimes punished directly by the Heavens. An emperor of the second vanced nations, we find traces of dynasty having defiantly shot arrows a growing Sun and Sky worship. at the sky, and erected idols was Dahomey, a country ruled with barslain by the lightning. T For the barous rigor, but yet possessing a space of three days did the Heavens well-organized monarchical governenvelop the earth in dark clouds, be- ment, the Sun is held to be the highcause another emperor had committed est of all beings but yet is not wor-

his omniscence naught is hidden. 1 a crime, 1. We might cite a multitude of similar instances; † but as our purpose here is only to define the position of China with regard to religious development, we refrain from any further illustration of this point.

However just the claim of the sky to the undivided worship of man, and howsoever strictly philosophicoreligious speculation may show it to be the one object that deserves to be worshiped, still the popular mind will not renounce its own nature as a fe-

In Africa, too, among the more adshiped. The Duallas call the Sun and the Great Spirit by one name. I

^{*} Histoire Générale de la Chine, trad. du Kong-Kien-Kang-Mon par de Mailla, publ. par Grosier. Par. 1777, I. p. 92, 111.

[†] Chi-King, H. 5, 6.

[!] Wuttke, H. 26.

[§] Chon-King, p. 13, 54, 87, 96, 99, 142, 160, 347 : Chi-King, p. 291, 11. 5, 6, 8; De Mailla,

Chou-King, p. 172. De Mailla, I. 227.

^{*} Chou-King, p. 91.

[†] C7. Wuttke, 11. 55 ff.

^{† 76.} H. 36 ff.

[§] De Mailla, Hist. gén. I. 33. Omboni, Viaggi nell' Africa Occidentale.

Milano, 1845, p. 309.

Allen and Thomson, Narr. of the Exped. to the R. Niger in 1841. Lond. 1848, II. 199. 395 note.

worship paid to the Sun.* The Ne-lincreased. If we would appreciate a groes of the Gold Coast, at least their devotees and fetichmen, call Njongmo (the Sky), which is omnipresent and ab acro, the Supreme God, and the Maker of the world. "You may every day see," said a fetichman, "how the rain and sunshine sent by him cause the grass and grain and trees to grow: he must therefore be the Creator." Every morning they go down to the stream, wash themselves, dash a handful of water or sand on their heads, and with eves turned to the sky, utter this prayer: "O God, give me this day rice and vams, gold and agries: give me slaves, wealth and health, and grant that I be quick and swift." The same belief, substantially, prevails in Akwapim, the Supreme Deity being the firmament, and the Earth, the Universal Mother, holding the second rank, while in the third rank stands Bosumbra, the head Fetich. Before embarking in any new enterprise the people of Akwapini offer a libation to these three, saying: "Creator, come, drink; Earth, come, drink; Bosumbra, come, drink." \$

CHAPTER VII.

THE AIM OF FETICHISM.

HAVING traced the development of religious ideas from their earliest origin to their more advanced stages, we would now gather the results of our analyses in order to show the ulterior aim to which the system is directed.

1. Retrospect.

The understanding has cognizance only of its own conceptions, and these conceptions are its objects. its range is limited to the conceptions and objects it has, and hence too it

In Acra Römer discovered a sort of grows as the number of its objects is man's intellectual status, we must know what are his conceptions, his objects. In his lowest condition man has but few objects: but as these are multiplied the more, the more does he advance in every respect.

It is a law of our mind that we shall range our conceptions in the order of cause and effect. But we can so range such conceptions as we possess. *Cause*, as being the efficient, the productive principle we can conceive of only as something possessed of power, of special efficiency, cordingly that object or that conception will pass for causal and efficient, which appears to be the stronger, the more excellent. We have seen how, as the number of objects was greater or less, their values differed proportionally, and how the mind with few objects must set as high a value on trifles (as viewed from a higher standpoint) as a superior understanding sets upon its more important objects: for a relatively trifling object assumes importance when its surroundings are more trifling still than itself. Hence we have seen that because he has but few objects, and a very narrow world, the fetichist takes to be causal an object which for him is momentous, though insignificant for us. We have seen that as he increases the number of his conceptions, the number of assignable causes is increased in proportion; and then we considered the various objects regarded as fetiches: stocks, stones, mountains, plants, etc. All these lay in man's own sphere, and he was attached to them by bodily interest. A new and spiritual interest could be awakened only by an entirely new object, and this he found in the heavenly bodies, by the worship of which man stepped beyond simply material interests and entered a spiritual sphere.

In proportion as the spiritual interest increases the more is the will detached from the simply corporeal. Animal passions are repressed in proportion as objects of spiritual interest

^{*} Römer, S. 84.

[†] Waitz, II. 170.

[!] Ibidem.

FETICHISM.

attract the will to themselves. But will observe contradictions between tranquillity and bodily security. The mode in which it must operate. wealth also. But in proportion as he abandons egotism, the more does he acknowledge moral control. In the higher stages of the worship of heavenly bodies we therefore found a high degree of development, not only intellectually but also morally. will-direction, and the will being elevated only by gaining higher and ever higher objects, therefore morality is elevated in proportion to the elevation of the objects.

2. The New Problem.

Sky-worship, including Star and Sun-worship, is the highest grade of fetichism, not only because its objects are the most exalted, but also because grounds for considering them it contains the nucleus of something causes, so long did man ascend the altogether new. So far, man has been series, But when the last link in that tracing causes from object to object, and in the pursuit of the final cause and the eye cannot penetrate beyond at length passed from earth to sky, the blue vault of the heavens. Hence But even there his final cause was when he comes to inquire as to the found to belong to the order of sensu- cause of the sky itself, he cannot asous things. His eyes discern his efficient causes; he sees them producing all phenomena, all objects. But the law of the mind is that he shall still search for a cause, and when once the mind has begun to question, it will never cease to question. What is the cause of A? it asks: and the answer sensual. But now he could not asis, B. But further it will ask, What sign anything super-sensual as a cause, then of B? and an answer it must if he had no conception of the "superhave. Now so far it has taken the sensual." But his gods and spirits Stars, the Sun, the Sky for its ulti- have furnished him with such a nomate cause: but the greater man's tion, and he has often held them to reverence for this cause, and the more be the causes of sundry phenomena he contemplates it, the more he learns in the world of sense. All his conas to its true nature. Soon all man- ceptions are empirical, and his conner of thoughts will spring up, and he ception of gods also had an empirical

in order to devote himself to spiritual its actual, empirical phenomena and interests man had need of repose, his own conception thereof, and of the higher this spiritual interest rises, the is this? he will inquire. And when more is fierce and destructive egotism such and such effects are produced Life is more tranquil, by the Sun, the question will come up, more orderly. Man builds up com- But what produced the Sun itself, monwealths, and his thoughts are with its phenomena? And in fact now no longer concerned about him- wherever this worship of heavenly self alone, but about the common-bodies attains its highest stage, as among the Mexicans, Peruvians and Persians, this question did actually arise. The Persians not alone put this question, but they found the answer to it, and the result was a new religion, that of Zoroaster. But the Mexicans and the Peruvians had their For morality being will-stimulus, or development interrupted by the fanaticism of a Cortez and a Pizarro, and hence they could not reach a solution of the problem, though it was explicitly stated by some eminent minds among them, and the nation was in a fair way soon to enter on a new religious epoch.

> But let us see how the problem must be solved by a people in their stage of development. As long as the objects of sense afforded the chain is reached, the senses fail: sign any sensible object, there being none that is greater than this. therefore he would still pursue his search after a cause, he must needs go beyond the domain of sense, and assign causes not apprehensible to the senses, prætersensual or super

origin. It is not our business here to 'A priest having twice reminded him cause is to be assigned for the ulti-questions. I am your king and lord. mate of sensible causes, it will be a Would any of you venture to order the ultimate Cause among sensible ob- set out on a long journey? of this proposition are not in place it pleased him, even though he had in an essay on fetichism: it will be sufficient if we show from history we have said.

Of the famous Inca, Tupac Jupancreator of all things. Furthermore, his never tiring is proof that he is not a living thing. If he had life, he would weary even as we: and were he free, he would visit other regions of heaven besides those in which his daily course now lies. He is, as it were, an object that is restricted in its the self-same course; or like the arrow which flies in the direction in which it is shot, and which cannot choose its own course." Another Inca was once, upon the feast of Raymi, attentively contemplating the Sun.

account for the idea of gods and that the reverence due to that lumispirits: it suffices if we know that it nary forbade such conduct, the monexists. When therefore an ultimate arch replied: "I will put you two God. But just as when he looked for me to rise from my throne and jects, that passed for ultimate which would any of my vassals be so bold as was unique, supreme, and above all to refuse obedience, were I to comthings else in power and dominion: mand him forthwith to hasten off so too must this God be unique, su- to Chile?" The priest having anpreme, exclusive. Here then is the swered both questions in the negapoint where, by the crossing of the tive, the monarch thus continued: two series of conceptions (referred "My word for it, there must be over to already at p. 26)—viz.: on the the Sun, our Father, a master greater one hand sensible objects, and on the and mightier still, who requires him other spirits or gods, both in their to perform his daily course: for were highest state of development (Sun the Sun himself the Supreme Lord, and Sky-worship, and Polytheism)— he would not pursue forever the Monothersm is evolved. The proofs same daily path: he would rest when no need of rest."*

One of the most eminent of the that the question we have spoken of Mexican kings, "an intellectual hero does actually arise where man has of the New World," was Nezahualreached the highest stage of fetichism, covotl. "His enlightened mind, and and that it is answered precisely as the love he had for his subjects, largely contributed to make his court famous, and it was ever after regarded as the qui,* Garcilasso states that "he was home of the arts and the center of rewont to say: Many hold that the sun fined culture. At Tezcuco, his capital, is endowed with life, and that he is the Mexican language was spoken the creator of all things. But who with the greatest purity and correctever creates a thing must be present ness; and there were always to be when he creates it: but now sundry found the best artists, and a vast asthings are produced in the absence of semblage of poets, orators and histothe Sun: therefore the Sun is not the rians. Not alone the Mexicans themselves, but many other nations received laws from Tezcuco, and hence we might say that Nezahualcovotl was the Solon, and his capital the Athens of Anahuac."† Well-versed in the poetry of his native land, the king was himself a poet of some distinction, and as late as the 16th century sixty hymns movements, and which ever describes composed by him in honor of the Creator of the heavens were held in high esteem even by the Spaniards. "But nothing possessed so deep an interest for Nezahualcoyotl as the study of Nature. He acquired a considerable

^{*} Acosta, Balboa, 59; apud Waitz, IV.

[†] Clavigero, I. p. 175 seq.

^{*} Garcilasso, VIII. 8.

from the numerous observations which he directed to be made of the courses of the stars. He also devoted much time to the study of botany and zoology, and those specimens which, as requiring a different climate, could not live at the capital, he had painted in the natural size on the walls of his He studied attentively the palace. causes of the phenomena of Nature, and this study led him to recognize the worthlessness of idolatry. He told his sons, in confidence, that whilst they paid exterior reverence to the idols. in deference to public sentiment, they should in their hearts abhor this contemptible worship of inanimate things. As for himself, he acknowledged no god save the Creator of the Heavens, but he did not forbid idolatry, much as he wished to do so, lest any man should charge him with setting himself in opposition to the teachings of his forefathers. He prohibited human sacrifices, but succeeded only so far as to limit them to the offering of prisoners of war." * To his "Unseen God," "the Unknown God, the Cause of Causes,"† he dedicated a

* Clavigero, I. p. 175 seq.

amount of astronomical knowledge tower of nine stories, with roof painted from the numerous observations which blue, and studded with golden stars,*

At stated hours certain officials appointed for the purpose struck a sonorous metallic plate in the tower, at which signal the king knelt and recited a prayer. From the ornamentation of this tower, as well as from his poems,† it is plain that, as Prescott says, "he combined star-worship with worship of the Almighty;" or rather, by combining star-worship with Polytheism, he reached Monotheism. This is clear from what Litliljochitl says of him, viz., that although he "invoked the Almighty, by whose grace we live, and who hath in himself all things," still he also "acknowledged the sun to be his father and the earth his mother."#

Causas." M. S. de Ijtliljochitl apud Prescott, l. 155.

* "Su boveda estaba pintada de azul." Clavigero, I. 176.

† "Let us strive heavenward, for there all is everlasting and incorruptible." Aspiremos al ciclo, que allí todo es eterno y nada se corrompe. "The horrors of the grave are but the Sun's cradle; and the sombre shadows only brilliant lights for the stars." El horror del sepulcro es lisongera cuña para el, y las funestas sombras brillantes luces para los astros

† Apud Prescott, I.

^{† &}quot;Al Dios no conocido, Causa de las

Humboldt Library of Science

is the only publication of its kind,—the only one containing popular scientific works at low prices. For the most part it contains only works of acknowledged excellence, by authors of the first rank in the world of science. Such works are landmarks destined to stand forever in the history of Mind. Here, in truth, is "strong meat for them that are of full age."

In this series are well represented the writings of

DARWIN, HUXLEY, SPENCER, TYNDALL, PROCTOR, CLIFFORD, CLODD, BAGEHOT, BAIN, BATES, WALLACE, TRENCH, ROMANES, GRANT ALLEN, BALFOUR STEWART, GEIKIE, HINTON, SULLY, FLAMMARION, PICTON, WILLIAMS, WILSON,

and other leaders of thought in our time. As well might one be a mummy in the tomb of the Pharaohs as pretend to live the life of the nineteenth century without communion of thought with these its Master Minds.

Science has in our time invaded every domain of thought and research, throwing new light upon the problems of

PHILOSOPHY, THEOLOGY, MAN'S HISTORY, GOVERNMENT, SOCIETY, MEDICINE.

In short, producing a revolution in the intellectual and moral world. No educated person, whatever his calling, can afford to keep himself out of the main current of contemporary scientific research and exposition.

The price of the several numbers is **fifteen cents** each (double numbers thirty cents), which is **less than one tenth** what is charged by London and New York publishers for **exactly the same readingmatter**.

THE HUMBOLDT LIBRARY is published semi-monthly, and mailed free to any address in the United States, Canada, or Mexico, on receipt of \$3. To Great Britain, France, Japan, &c., \$4.00 a year.

Subscribers get 24 numbers as they appear, single or double. Subscriptions can commence at any time within the current year.

THE HUMBOLDT PUBLISHING CO.

28 Lafayette Place, New York.

		9.50

CATALOGUE

THE HUMBOLDT LIBRARY

POPULAR SCIENCE.

Containing the works of the foremost scientific writers of the age. - The Great Classics of Modern Thought.—Strong meat for them that are of full age.

Price. Fifteen Cents per number, except as otherwise noted in this catalogue.

No. 1.

LIGHT SCIENCE FOR LEISURE HOURS.-A Series of Familiar Essays on Scientific Subjects, Natural Phenomena, &c. - By RICHARD A. PROCTOR, B.A., Camb., F.R.A.S., author of "The Sun," "Other Worlds than Ours," "Saturn," &c.

CONTENTS.

Strange Discoveries respecting the Aurora. The Earth a Magnet.
Our Chief Timepiece losing
Time.

Encke the Astronomer. Venus on the Sun's Face. Recent Solar Researches. Government Aid to Science. American Alms for British Science.

The Secret of the North Pole. Is the Gulf Stream a Myth? Floods in Switzerland.

The Tunnel through Mont Cenis. The Greatest Sea-Wave ever known.

The Usefulness of Earthquakes.
The Earthquake in Peru.
A Great Tidal Wave. Deep-Sea Dredgings. Tornadoes. Vesuvius.

The Forcing Power of Rain.
A Shower of Snow-Crystals. Long Shots. Influence of Marriage on the Death-Rate.

The Topographical Survey of India.

A Ship Attacked by a Swordfish.

The Safety-Lamp.
The Dust we have to Breathe. Photographic Ghosts.

The Oxford and Cambridge Rowing Styles. Betting on Horse-Races: or, the State of the Odds. Squaring the Circle. The New Theory of Achilles' Shield.

No. 2.

THE FORMS OF WATER IN CLOUDS AND RIVERS, ICE AND GLACIERS.—By John Tyndall, LL.D., F.R.S., Professor of Natural Philosophy in the Royal Institution, London.-With nineteen illustrations drawn under the direction of the author.

CONTENTS.

Clouds, Rains, and Rivers, The Waves of Light. Oceanic Distillation. Tropical Rains. Architecture of Snow.
Architecture of Lake Ice.
Ice Pinnacles, Towers, and Chasms.

The Motion of Glaciers.
Likeness of Glacier Motion to
River Motion.
Changes of Volume of Water
by Heat and Cold.
The Molecular Mechanism of
Water-congelation.
See Lea and Leaboure. Sea Ice and Icebergs.

Ancient Glaciers of Switzerland. Ancient Glaciers of England Scotland, Wales, and Ireland. The Glacial Epoch. Glacier Theories.

The Blue Veins of Glaciers. Crevasses.

No. 3.

PHYSICS AND POLITICS: An Application of the Principles of Natural Selection and Heredity to Political Society.—By WALTER Bagehor, author of "The English Constitution."

CONTENTS.

Chapter II.—The Preliminary Age. Chapter III.—The Use of Conflict. Chapter III.—Nation-making. Chapter IV .- Nation-making.

Chapter V.—The Age of Discussion. Chapter VI.—Verifiable Progress Politically Con sidered.

THE HUMBOLDT LIBRARY

AS TO MAN'S PLACE IN NATURE. - By THOMAS H. EVIDENCE

HUNLEY, F.R.S., F.L.S.- With numerous illustrations.

CONTENTS.

Chapter I - The Natural History of the Manlike Apes.

| Chapter II -The Relations of Man to the Lower Animals. Chapter III - Some Fossil Remains of Man.

EDUCATION: INTELLECTUAL, MORAL, AND PHYSICAL.- By

HERBERT SPENCER.

CONTENTS.

Chapter L.—What Knowledge is of Most Worth? | Chapter III.—Moral Education. Chapter II.-Intellectual Education.

Chapter IV .- Physical Education.

TOWN GEOLOGY .- By the Rev. CHARLES KINGSLEY, F.L.S., F.G.S., Canon of Chester.

CONTENTS.

Chapter I.—The Soil of the Field. Chapter H.—The Pebbles in the Street. Chapter III .- The Stones in the Wall.

Chapter IV.—The Coal in the Fire. Chapter V.—The Lime in the Mortar. Chapter VI—The Slates on the Roof.

No. 7

THE CONSERVATION OF ENERGY. - By Balfour Stewart, LL.D., F.R.S., Professor of Natural Philosophy at the Owens College, Manchester, Eng. With an Appendix - "The Correlation of Nervous and Mental Forces," by Prof. ALEXANDER BAIN.

CONTENTS.

I.-What is Energy?

Chapter I.—What is Energy? Chapter II.—Mechanical Energy and its Change

into Heat. Chapter III.—The Forces and Energies of Nature: the Law of Conservation. Chapter IV.—Transmutations of Energy.

Chapter V.—Historical Sketch: the Dissipatioa of Energy.
Chapter VI.—The Position of Life.

APPENDIX - The Correlation of Nervous and Mental Forces.

No. 8

LANGUAGES BROUGHT BACK TO THE STUDY OF TRUE PRINCIPLES .- By C. MARCEL, Knt. Leg. Hon., author of "Language as a Means of Mental Culture," &c.

CONTENTS.

1.-Subdivision and Order of Study. Chapter

Chapter II.—Subdivision and Orde Chapter III.—The Art of Reading. Chapter III.—The Art of Hearing. Chapter IV.—The Art Speaking.

Chapter V.—The Art of Writing. Chapter VI.—On Mental Culture. Chapter VII.—On Routine.

No - 9

DATA OF ETHICS. - By HERBERT SPENCER. THE

CONTENTS.

1.- Conduct in General. Chapter II.—The Evolution of Conduct.
III.—Good and Bad Conduct. Chapter Chanter Chapter

IV.—Ways of Judging Conduct.
V.—The Physical View.
VI.—The Biological View.
VII.—The Psychological View. Chapter Chapter

'hanter Chapter VIII. - The Sociological View.

IX .- Criticisms and Explanations Chapter X.— The Relativity of Pains and Pleas-XI.— Egoism rersus Altruism. [ures. Chapter Chapter Chapter XII. - Altruism versus Egoism.

Chapter XIII.- Trial and Compromise.

Chapter XIV.—Conciliation.
Chapter XV.—Absolute Ethics and Relative EthChapter XVI.—The Scope of Ethics. [ics.

Published semi-monthly.-\$3 a year.-Single numbers, 15 cents.

No. 10.

THE THEORY OF SOUND IN ITS RELATION TO MUSIC.—By

Professor Pietro Blaserya, of the Royal University of Rome.—With numerous woodcuts

CONTENTS.

Chapter I.— Periodic Movements: Vibration.— Sonorous Vibration.—Vibration of a Bell.—Vibration of a Tuning-fork.-Vibration of a String.-Of Plates and Membranes.—Vibration of Air in a Sounding-pipe.—Method of the Monometric Flame. - Conclusion.

Chapter II.—Transmission of Sound.—Propaga-tion in Air.—In Water and Other Bodies.—Ve-locity of Sound in Air.-In Water and Other Bodies.

Reflection of Sound .- Echo.

Chapter III.-Characteristics of Sound, and Difference between Musical Sound and Noise. —Loud-ness of Sound, and the Various Causes on which it depends.—Principle of the Superposition of Sounds.—Sounding-boards and Resonators.

Sounds.—Sounding-boards and Resonators.
Chapter IV.— Measure of the Number of Vibrations.—Pitch of Sounds: Limit of Andible Sounds, of Musical Sounds, and of the Human Voice.—
The "Normal Pitch."—Laws of the Vibrations of a String, and of Harmonics.

a String, and of Harmonies.

Chapter V.—Musical Sounds.—Law of Simple Ratio.—Unison: interference.—Beats: their explanation.—Resultant Notes.—Octaves, and other Harmonies.—Consonant Chords and their limits.

The Major fifth, fourth, sixth, and third: the Minor third and sixth.—The Seventh Harmonic.

Chapter VI.—Helmholtz's Double Siren.—Appli-Chapter VI.—Helmhoutz & Doubbe Shien.—Apparection of the Law of Simple Ratio to three or more notes.—Perfect Major and Minor Chords; their nature.—Their inversion.

Chapter VII.—Discords.—The Nature of Music and Musical Scales.—Ancient Music.—Greek Scale.—Scale of Pythagoras.—Its decay.—Ambro-sian and Gregorian Chants.—Polyphonic Music: Harmony.—The Protestant Reformation.—Pales-Harmony—The Protestant Reformation.—Palestrina.—Change of the Musical Scale.—The Tonic or Fundamental Chord.—The Major Scale.—Musical Intervals.—The Minor Scale.—Key and Transposition.—Sharps and Flats.—The Temperate Scale: its inaccuracy.—The Desirability of abandariar is doning it.

Chapter VIII.—Quality or timbre of Musical Sounds.—Forms assumed by the Vibrations.— Laws of Harmonies.—Quality or timbre of Strings and of Instruments.—General Laws of Chords.— Noises accompanying Musical Sounds.—Quality or timbre of Vocal Musical Sounds.

Chapter IX.—Difference between Science and Art.—Italian and German Music.—Separation of the two Schools.-Influence of Paris.-Conclusion.

Nos. 11 and 12.

Double number, 30 cents,

THE NATURALIST ON THE RIVER AMAZONS.-A Record of Adventures, Habits of Animals, Sketches of Brazilian and Indian Life, and Aspects of Nature under the Equator, during eleven years of travel. - By HENRY WALTER BATES, F.L.S., Assistant Secretary of the Royal Geographical Society of England.

CONTENTS.

(In part.)

Chapter I. — Arrival at Pará — Aspect of the country—First walk in the suburbs of Pará—Birds, lizards, and insects—Leaf-carrying ant—Sketch of

the climate history and present condition of Pará.
Chapter II.—The swampy forest of Pará—A Portuguese landed proprietor—Life of a Naturalist under the Equator—The dryer virgin forests—Re-

tired creeks—Aborigines.
Chapter III.—The Tocantins River and Cametá -Sketch of the River-Grove of fan-leaved palms

-Native life on the Tocantins.

Chapter V .- Caripi and the Bay of Marajo-Negro observance of Christmas-A German family - Bats - Ant-eaters - Humming-birds - Domestic life of the inhabitants—Hunting exension with Indians—White ants.
Chapter VI.—The Lower Amazons—Modes of traveling on the Amazons—Historical sketch of the

early explorations of the river-First sight of the

great river—Flat-topped mountains.
Chapter VII.—Ville Nova, its inhabitants forest. and animals—A rustic festival—River Madeira— Mura Indiaus—Yellow Fever.

Chapter VIII.—Santarem—Manners and customs

of the inhabitants-Sketches of Natural Historypalms, wildfruit-trees, mining-wasps, mason-wasps, bees, and sloths.

Chapter IX.—Voyage up the Tapajos—Modes of obtaining fish—White Cebus, and habits and dispositions of Cebi monkeys-Adventure with anacouda - Smoke-dried monkey - Boa-constrictor - Hya-

citatine macaw—Descent of river to Santarem.
Chapter X.—The Upper Amazons—Desolate appearance of river in the flood season—Mental condition of Indians—Ploating pumice-stones from the Andes—Falling banks—Ega and its inhabitants The four seasons of the Upper Amazons.

Chapter XI.—Excursions in the neighborhood of

Chapter Ar. —Excursions in the heighborhood of Ega—Character and customs of the Passe Indians —Hunting rambles with natives in the forest. Chapter XII. —Animals of the neighborhood of Ega—Scarlet-faced monkeys—Owl-faced night-apes — Marmosets—Bats—Birds—Insects—Pendulous

— namosects—Fendmons cocoons—Foraging ants—Blind ants. Chapter XIII.—Excursions beyond Ega—Steam-boat traveling on the Amazons—Various tribes of Indians—Descent to Pará—Great changes at Pará -Departure for England.

_*. This is one of the most charming books of travel ever written, and is both interesting and instructive. It is a graphic description of "a country of perpetual summer, - where trees yield flower and fruit all the year round,"-" a region where the animals and plants have been fashioned in Nature's choicest moulds."

THE HUMBOLDT LIBRARY

No. 13

MIND AND BODY: The Theories of their Relation.—By ALEXANDER Baix, LL.D., Professor of Logic in the University of Aberdeen.

CONTENTS.

Chapter 1 - Question Stated.

Chapter II .- Connection of Mind and Body.

Chapter III .- The Connection Viewed as Correspondence, or Concomitant Variation.

Chapter IV.—General Laws of Alliance of Mind and Body.—The Feelings and the Will Chapter V.—The Intellect. Chapter VI.—How are Mind and Body united?

Chapter VII. - History of the Theories of the Soul

No. 14

THE WONDERS OF THE HEAVENS .- By CAMILLE FLAMMARION .-Translated from the French by Mrs. NORMAN LOCKYER. - With thirty-two Actinoglyph Illustrations.

CONTENTS.

BOOK FIRST.

Chapter I.— Night. Chapter II.— The Heavens.

Chapter II.—The Heavens,
Chapter III.—Infinite Space,
Chapter IV.—General Arrangement of the UniChapter V.—Clusters and Nebulæ,
Chapter VI.—The Milky Way.

BOŌK SECOND.

Chapter I.—The Sidereal World.
Chapter II.—The Northern Constellations.
Chapter III.—The Zodiac.
Chapter IV.—Southern Constellations.
Chapter V.—The Number of the Stars.—Their Distances. Distances.

Obstances, Chapter VI.—Variable Stars.—Temporary Stars, Stars suddenly visible or invisible, Chapter VII.— Distant Universes.— Double, Multiple, and Colored Suns.

BOOK THIRD.

Chapter L.—The Planetary System. Chapter H.—The Sun.

III.—The Sun (continued). Chapter

IV.—Mercury. V.—Venus. Chapter Chapter

Chapter VI.- Mars.

VII.-Jupiter Chapter Chapter VIII.—Saturn.

Chapter IX.- Uranus.

X.—Neptune. XI.—Comets. Chapter

Chapter

Chapter XII. - Comets (continued).

BOOK FOURTH.

I .- The Terrestrial Globe.

Chapter I.—The Terrestrial Globe, Chapter II.—Proofs that the Earth is round.— That it turns on an axis, and revolves round

the Sun.

Chapter III.—The Moon. Chapter IV.—The Moon (continued). Chapter V.—Eclipses.

BOOK FIFTH.

Chapter I.—The Plurality of Inhabited Worlds Chapter H.—The Contemplation of the Heavens.

No. 15.

LONGEVITY: THE MEANS OF PROLONGING LIFE AFTER MIDDLE AGE. + By John Gardner, M.D.

CONTENTS.

What is the Natural Duration of Human Life? Is the Duration of Life in any degree within our power! Some General Considerations respecting Ad-

vanced Age. Causes of Neglect of Health. Is Longevity Desirable?

Physiology of Advanced Age.

Heredity. The Means of Ameliorating and Retarding the

Effects of Age. Recuperative Power.—What is Life?

Water: its bearing on Health and Disease.

Mineral Waters.

Stimulants-Spirituous and Malt Liquors and

Wine.
Climate, its Effects on Longevity.
Climate, its Effects on Longevity.
The desirations from Health in Aged Disregarded Daviations from Health in Aged Persons,—(a), Faulty Nutrition—General At-tenuation,—(b), Local Failure of Nutrition,— (c). Obesity.

Pain - the Use and Misuse of Narcotics. - (a). Dolor-Senilis. - (b). Narcotics. - (c). Sarsaparilla and other Remedial Agents. Gout—New Remedies for.

Rheumatism.—Lumbago. Limit to the Use of Narcotics.

The Stomach and Digestion.

The laver.

The Kidneys and Urine. - Simple Overflow - Albuminous Urine.—Bright's Disease.—Muddy Urine, Gravel, Stone.—Irritable Bladder.— Diabetes

The Lower Bowels.
The Throat.—Air-passages.—Lungs.—Bronchitis.

The Heart.
The Brain—Mind, Motive Power, Sleep, Paralysis. Established Facts respecting Longevity. Diseases Fatal after Sixty.

Summary:—An Experiment Proposed.
Appendix.—Causes of Premature Death.
Notes on some Collateral Topics.—(a). Longevity
of the Patriarchs and in Ancient Times.—(b). or the ratheres and in Ancient Times,—(b). Flourens on Longevity,—(c). Popular Errors respecting Longevity,—(d). Waste of Human Life,—(c). Moral and Religious Aspects of Longevity,—(f). Importance of Early Treatment of Disorders,—(g). The Bones of Old People Brittle,—(h). Condition of very Old People in the Annal State of Condition of the People Brittle,—(h). People. - d. One Hundred and Five Years the Frequency (r), one Humare and Five Tears the Extreme Limit of Human Life,—(f). A Case of Keenperation,—(k), On the Water used in Country Towns,—(h) Pure Aerated Water,—(m). Anticipations,—(n). Adultration of Market Mark Food. &c., its Effects on Human Life.—(n). Cases of Prolonged Life.—(p). Appliances Useful to Aged Persons for Immediate Relief of Suffering.

No. 16.

ON THE ORIGIN OF SPECIES; or, The Causes of the Phenomena of Organic Nature. - A Course of Six Lectures. - By Thomas H. Huxley. F.R.S., F.L.S., Professor of Natural History in the Jermyn Street School of Mines, London.

CONTENTS.

Chapter 1 .- The Present Condition of Organic

Nature. [ture. Chapter II.—The Past Condition of Organic Na-Chapter III.—The Method by which the Causes of the Present and Past Conditions of Organic Nature are to be discovered .- The Origination of Living Beings.
Chapter IV.—The Perpetuation of Living Beings.

Hereditary Transmission and Variation.

Chapter V .- The Conditions of Existence as af-

Chapter V.— The Conditions of Existence as arfecting the Perpetuation of Living Beings.
Chapter VI.—A Critical Examination of the Position of Mr. Darwin's work on "The Origin of Species," in relation to the Complete The ory of the Causes of the Phenomena of Organic Nature.

APPENDIX.—Criticisms on Darwin's "Origin of Species."

No. 17.

PROGRESS: ITS LAW AND CAUSE.—With other Disquisitions, viz., The Physiology of Laughter.—Origin and Function of Music.—The Social Organism. - Use and Beauty. - The Use of Anthropomorphism. - By HERBERT SPENCER.

No. 18.

LESSONS IN ELECTRICITY. To which is added an Elementary Lecture on Magnetism.-By John Tyndall, D.C.L., LL.D., F.R.S., Professor of Natural Philosophy in the Royal Institution of Great Britain .- With Sixty Illustrations.

CONTENTS.

Introduction. Historic Notes. The Art of Experiment. Electric Attractions. Discovery of Conduction and Insulation. The Electroscope.
Electrics and Non-Electrics.
Electric Repulsions of Florit Fundamental Law of Electric Action. Double or "Polar" Character of the Electric Force.
What is Electricity?
Electric Induction. The Electrophorus.
Action of Points and Flames.

The Electrical Machine. The Leyden Jar. Franklin's Caseade Battery. Frankin's Cassade Battery.
Leyden Jars of the Simplest Form.
Ignition by the Electric Spark.
Duration of the Electric Spark.
Electric Light in Vacuo.
Lichtenberg's Figures. Surface Compared with Mass. Physiological Effects of the Electrical Discharge. Atmospheric Electricity. The Returning Stroke. The Leyden Batter APPENDIX. - An Elementary Lecture on Mag-

No. 19.

FAMILIAR ESSAYS ON SCIENTIFIC SUBJECTS, viz., Oxygen in the Sun.-Sun-spot, Storm, and Famine.-New Ways of Measuring the Sun's Distance.—Drifting Light-waves.—The New Star which faded into Star-mist.— Star-grouping, Star-drift, and Star-mist.—By Richard A. Proctor.

netism.

No. 20.

ROMANCE OF ASTRONOMY.—By R. KALLEY MILLER, M.A., Fel-THE low and Assistant Tutor of St. Peter's College, Cambridge, England. - With an Appendix by Richard A. Proctor.

CONTENTS.

The Planets. Astrology. The Moon. The Sun.

The Comets. Laplace's Nebular Hypothesis. The Stars The Nebulæ.

APPENDIX.

The Past History of our Moon. Ancient Babylonian Astrogony.

No. 21

ON THE PHYSICAL BASIS OF LIFE. - With Other Essays, viz., The Scientific Aspects of Positivism.- A Piece of Chalk.-Geological Contemporaneity.- A Liberal Education.- By THOMAS H. HUXLEY, F.R.S., F.L.S.

No 22

SEEING AND THINKING .- By WILLIAM KINGDON CLIFFORD, F.R.S., Pro-Sessor of Applied Mathematics and Mechanics in University College, London. and sometime Fellow of Trinity College, Cambridge.

CONTENTS.

The Eve and the Brain. The Eve and Seeing.

The Brain and Thinking. Of Boundaries in General.

No. 23.

SCIENTIFIC SOPHISMS. A Review of Current Theories concerning Atoms, Apes, and Men.-By Samuel Wainwright, D.D., author of "Christian Certainty," "The Modern Avernus," &c.

CONTRNTS.

Chapter L.-The Right of Search.

Chapter H .- Evolution.

Chapter III .- "A Puerile Hypothesis."

Chapter IV .- "Scientific Levity."

Chapter V .- A House of Cards.

Chapter VI. - Sophisms.

Clapter VII. - Protoplasm.

Chapter VIII .- The Three Beginnings

Chapter IX .- The Three Barriers.

Chapter X.—Atoms.

Chapter XL-Apes.

Chapter XII.-Men.

Chapter XIII. - Animi Mundi.

POPULAR SCIENTIFIC LECTURES, viz., On the Relation of Optics to Painting.-On the Origin of the Planetary System.-On Thought in Medicine. On Academic Freedom in German Universities .- By H. Helmholtz, Professor of Physics in the University of Berlin.

No. 25.

THE ORIGIN OF NATIONS.-In two parts.-On Early Civilizations. On Ethnic Affinities, &c. - By George Rawlinson, M.A., Camden Professor of Ancient History, Oxford.

CONTENTS.

PART I .- EARLY CIVILIZATIONS.

Chapter Chapter

I.—Introduction.
II.—On the Antiquity of Civilization in Egypt.

Chapter III .- On the Antiquity of Civilization

at Babylon.

Chapter IV .- On the Date and Character of

thapter IV.—On the Date and Character of Phonician Civilization.

Chapter V.—On the Civilizations of Asia Minor—Phrygia, Lydia, Lycia, Troas.

Chapter VI.—On the Civilizations of Central Asia—Assyria, Media Persia India, Chapter VII.—On the Civilization of the Ermscans Chapter VIII.—On the Civilization of the British Celts.

Celts.

IX.—Results of the Inquiry.

PART II .- ETHNIC AFFINITIES IN THE ANCIENT WORLD.

Chapter I .- The Chief Japhetic Races.

Chapter II .- Subdivisions of the Japhetic Races,

Gomer and Javan.

Chapter III .- The Chief Hamitic Races

Chapter IV .- Subdivisions of Cush.

Chapter V .- Subdivisions of Mizraim and Canaan.

Chapter VI.-The Semitic Races.

Chapter VII .- On the Subdivisions of the Semitic

Published semi-monthly. \$\simeq \$3 a year. Single numbers, 15 cents.

OF POPULAR SCIENCE.

No. 26.

THE EVOLUTIONIST AT LARGE.—By GRANT ALLEM.

CONTENTS.

Chapter I.—Microscopic Brains.	Chapter XII.—Speckled Trout.
Chapter II.— A Wayside Berry.	Chapter XIII Dodder and Broomrape.
Chapter III.—In Summer Fields.	Chapter XIV.—Dog's Mercury and Plantain.
Chapter IV A Sprig of Water Crowfoot.	Chapter XV.—Butterfly Psychology,
Chapter V.—Slugs and Snails.	Chapter XVI.—Butterfly Esthetics.
Chapter VI.—A Study of Bones.	Chapter XVII.—The Origin of Walnuts.
Chapter VII.—Blue Mud.	Chapter XVIII.—A Pretty Land-shell.
Chapter VIII Cuckoo pint.	Chapter XIX.—Dogs and Masters.
Chapter IX.—Berries and Berries.	Chapter XX.—Blackcock.
Chapter X.—Distant Relations.	Chapter XXI.—Bindweed.
Chapter XI.—Among the Heather.	Chapter XXII.—On Cornish Cliffs.

No. 27.

THE HISTORY OF LANDHOLDING IN ENGLAND,—By JOSEPH FISHER, F.R.H.S.

CONTENTS.

I.— The Aborigines. II.— The Romans. III.— The Scandinavians.	IV.—The Normans. V.—The Plantagenets. VI.—The Tudors.	VII.—The Stuarts. VIII.—The House of Hanover.
---	---	---

No. 28.

FASHION IN DEFORMITY, AS ILLUSTRATED IN THE CUSTOMS OF BARBAROUS AND CIVILIZED RACES.—By WILLIAM HENRY FLOWER, LL.D., F.R.S., F.R.C.S., P.Z.S., &c., Hunterian Professor of Comparative Anatomy, and Conservator of the Museum of the Royal College of Surgeons of England.—With illustrations.

TO WHICH IS ADDED

MANNERS AND FASHION, - By HERBERT SPENCER.

No. 29.

FACTS AND FICTIONS OF ZOOLOGY,—By Andrew Wilson, Ph.D., F.R.P.S.E.. &c., Lecturer on Zoology and Comparative Anatomy in the Edinburgh Medical School; Lecturer on Physiology, Watt Institution and School of Arts, Edinburgh, &c.—With numerous illustrations.

CONTENTS.

Zoological Myths. The Sea-serpents of Science. Some Animal Architects. Parasites and their Development. What I Saw in an Ant's Nest.

No. 30, and No. 31,

[15 cents each number.

ON THE STUDY OF WORDS.—By RICHARD CHENEVIX TRENCH, D.D., Archbishop of Dublin.

CONTENTS.

Lecture I.—Introductory Lecture.

Lecture II.—On the Poetry in Words.

Lecture III.—On the Morality in Words.

Lecture IV.—On the History in Words.

Lecture V.—On the Rise of New Words. Lecture VI.—On the Distinction of Words. Lecture VII.—The Schoolmaster's Use of Words.

No. 32.

HEREDITARY TRAITS, AND OTHER ESSAYS.—By RICHARD A. PROCTOR. B.A., F.R.A.S., author of "The Sun." "Other Worlds than Ours." "Saturn," &c.

CONTENTS.

I.—Hereditary Traits.
II.—Bodily Illness as a Mental Stimulant.
IV.—Dual Consciousness.

THE HUMBOLDT LIBRARY

VIGNETTES FROM NATURE. - By GRANT ALLEN, author of "The Evolutionist at Large."

CONTENTS. 1 - Pallow Teer XII.—A Bed of Nettles, XIII.—Loosestrife and Pimpernel. Sodge and Woodbrush. Red Campion and White. Butterfly-Hunting Begins. XIII.—Loosestrife and Pimperne XIV.—The Carp Pool. XV.—A Welsh Roadside. XVI.—Seaside Weeds, XVII.—A Mountain Tarn. XVIII.—Wild Thyme. XIX.—The Donkey's Ancestors. XX.—Beside the Cromlech. XXI.—The Fall of the Leaf. XXII.—The Fall of the Year. 111 ٧. Red Campton Again. VI The Hedgehog's Hole. On Musleury Castle. VII VIII A Big Fossil Bone. Veronica. Cuelder Rose.

No 434

XI = The Heron's Haunt.

THE PHILOSOPHY OF STYLE.—By HERBERT SPENCER, author of "First Principles of Philosophy," "Social Statics," "Elements of Psychology," "Elements of Biology," "Education," &c.

CONTENTS.

Part I.—Causes of Force in Language which depend upon Economy of the Mental Energies.

L-The Principle of Economy applied to Words. H .- The Effect of Figurative Language Explained.

III.—Arrangement of Minor Images in Build-ing up a Thought. IV.—The Superiority of Poetry to Prose Explained.

Part II.—Causes of Force in Language which depend upon Economy of the Mental Sensibilities.

TO WHICH IS ADDED

THE MOTHER TONGUE.—By Alexander Bain, LL.D., Professor of Logic in the University of Aberdeen.

CONTENTS.

Conditions of Language Acquisition Generally. The Mother Tongue. Teaching Grammar.

The Age for Commencing Grammar. The Higher Composition. English Literature.

No. 35.

ORIENTAL RELIGIONS.—By JOHN CAIRD, S.T.D., President of the University of Glasgow, and other authors.

CONTENTS.

 L — Brahmanism. Religions of India. H.—Buddhism. By John Caird, 8.T.D. Keligion of China.—Confucianism.

By Rev. George Matheson Religion of Persia.—Zoroaster and the Zend Avesta. By Rev. John Milne, M.A.

No. 16.

LECTURES ON EVOLUTION.—With an Appendix on The Study of Biology. By THOMAS H. HUXLEY.

CONTENTS.

L-THREE LECTURES ON EVOLUTION. Letture L.—The Three Hypotheses respecting the History of Nature, Lecture H.—The Hypothesis of Evolution.—The Neutral and the Favorable Evidence, Lecture III. - The Demonstrative Evidence of Evolution.

H - A LECTURE ON THE STUDY OF BIOLOGY.

No. 37.

SIX LECTURES ON LIGHT. By Prof. John Tyndall, F.R.S.

CONTENTS.

Let us I - Introductory Lecture II. Origin of Physical Theories. Lecture III. - Relation of Theories to Experience, Lecture IV. - Chromatic Phenomena produced by

Crystals on Polarized Light.

Lecture V.—Range of Vision incommensurate with Range of Radiation. Lecture VI.—Principles of Spectrum Analysis. —Solar Chemistry.—Summary and Conclusions.

OF POPULAR SCIENCE.

No. 38 and No. 39.

[15 cents each number.

GEOLOGICAL SKETCHES AT HOME AND ABROAD.—By Archibald Geikie, LL.D., F.R.S., Director-General of the Geological Surveys of

Great Britain and Ireland.—In Two Parts, each complete in itself.

CONTENTS.

Part I.- No. 38. I.—My First Geological Excursion.
II.—"The Old Man of Hoy."
III.—The Baron's Stone of Killocha

Killochan.

IV.—The Colliers of Carrick.

V.—Among the Volcanoes of Central France.

VI.—The Old Glaciers of Norway and Scotland.

VII.—Rock-Weathering Measured by the Decay of Tombstones.

PART II.—No. 39. I.—A Fragment of Primeval Europe.

I.—A Fragment of Frinteval Europe.
II.—In Wyoming.
III.—The Geysers of the Yellowstone.
IV.—The Lava Fields of Northwestern Europe.
V.—The Scottish School of Geology.
VI.—Geographical Evolution.
VI.—Geographical Luthanges which have affect.

VII.—The Geological Influences which have affected the Course of British History.

No. 40

THE SCIENTIFIC EVIDENCE OF ORGANIC EVOLUTION,-By George J. Romanes, M.A., LL.D., F.R.S., Zoological Secretary of the Linnean

Society. London.

I.— Introduction. II.—The Argument from Classification. [ure. III.—The Argument from Morphology or Struct-IV.—The Argument from Geology.

CONTENTS.

[ure. V.—The Argument from Geographical Distribu-fure. VI.—The Argument from Embryology. [tion.] VII.-Arguments drawn from Certain General Considerations.

TO WHICH IS ADDED

PALEONTOLOGY AND THE DOCTRINE OF EVOLUTION.—By Prof. THOMAS H. HUXLEY.

NATURAL SELECTION AND NATURAL THEOLOGY.—By EUSTACE R. Conder. D.D.

CURRENT DISCUSSIONS IN SCIENCE. - By W. MATTIEU WILLIAMS,

F.R.A.S., F.C.S., author of "The Fuel of the Sun," "Through Norway with a Knapsack," "A Simple Treatise on Heat," &c.

CONTENTS.

IX.—Aerial Exploration of the Arctic Regions X.—"Baily's Beads."
XI.—World-smashing.

I.—Meteoric Astronomy.
II.—Dr. Siemens's Theory of the Snn.
III.—Another World Down Here.
IV.—The Origin of Volcanoes.
V.—Note on the Direct Effect of Sun-Spots on XII.—On the so-called "Crater-Necks" and "Volcanic Bombs" of Ireland.

Terrestrial Climates. XIII.—Travertine.
XIV.—Murchison and Babbage.
XV.—The "Consumption of Smoke." VI .- The Philosophy of the Radiometer and its

Cosmical Revelations. XVI.—The Air of Stove-heated Rooms. VII.—The Solidity of the Earth.

VIII. - Meteoric Astronomy.

No. 42.

HISTORY SCIENCE OF POLITICS. - By FREDERICK OF THE

CONTENTS.

Chapter I.—Introductory.—Place of the Theory of Politics in Human Knowledge.
Chapter II.—The Classic Period: Pericles—Soc-

rates-Plato-Aristotle.-The Greek Ideal of

the State. Chapter III.—The Mediaval Period: The Papacy and the Empire.-Thomas Aquinas-Dante-

Bracton—Marsilio of Padua Chapter IV.—The Modern Period: Machiavelli— Jean Bodin—Sir Thomas Smith—Hobbes.

Chapter V.—The Modern Period (continued): Hooker—Locke—Rousseau—Blackstone. Chapter VI.—The Modern Period (continued):

Hume-Montesquieu-Burke.
Chapter VII.—The Present Century: Political
Sovereignty—Limits of State Intervention— Bentham—Austin—Maine—Bagehot—Kant— Ahrens—Savigny—Cornewall Lewis—John Stuart Mill-Herbert Spencer-Laboulaye.

DARWIN AND HUMBOLDT.-Their Lives and Work.-By Prof.

HUXLEY and others.

CONTENTS.

ALEXANDER VON HUMBOLDT. CHARLES DARWIN.

I.—Introductory Notice.—By Th. H. Huxley.

I.— Introductory Notice.— By I.H. H. HANLEY.
II.— Life and Character.— By GEO. J. ROMANES.
III.—Work in Geology.— By Archibald Geikie.
IV.—Work in Botany.—ByW.T.Thiselton Dyer.
V.—Work in Zology.— By Geo. J. ROMANES.
VI.—Work in Psychology.—By Geo. J. ROMANES.

- An Address delivered by Louis Agassiz at the Centennial Anniversary of the birth of ALEX-ANDER VON HUMBOLDT, under the auspices of the

Boston Society of Natural History, Sept. 14, 1869. II.—Remarks by Prof. Frederic H. Hedge, of Harvard University.

44 and No 45

15 cents each number.

THE DAWN OF HISTORY. - An Introduction to Prehistoric Study. - Edited by C. F. KEARY, M.A., of the British Museum. - In Two

Parts, each complete in itself.

CONTENTS.

PART I - No. 44.

Chapter I - The Earliest Traces of Man.
Chapter III. - The Second Stone Age.
Chapter III. - The torowth of Language.
Chapter IV. - Families of Language.
Chapter V. - The Nations of the Old World.
Chapter VII. - Early Social Life.
Chapter VII. - The Village Community. Part II.—No. 45. Chapter VIII.—Religion. Chapter VIII.—Religion.
Chapter IX.—Ayan Religions.
Chapter X.—The Other World.
Chapter XI.—Mythologies and Folk-Tal.
Chapter XII.—Pleurie-Writing
Chapter XIII.—Phonetic Writing. Chapter XIV.-Conclusion - Notes and Author-

No. 46

DISEASES OF MEMORY .- By TH. RHOT, author of "Heredity." THE "English Psychology,"&c.—Translated from the French by J. FITZGERALD, A.M.

CONTENTS.

Chapter L - Memory as a Biological Fact. Memory essentially a biological fact, incidentally a psychic fact .- Organic memory .- Modifications of nerve-elements; dynamic associations between these elements.-Conscious memory.—Conditions of conscionsness: intensity; duration.—Unconscious cerebration.—Nerveaction is the fundamental condition of memory; consciousness is only an accessory.—Localiza-tion in the past, or recollection.—Mechanism of this operation.-It is not a simple and instantaneous act; it consists of the addition of secondary states of consciousness to the principal state of consciousness.—Memory is a vision in time — Localization, theoretical and practical.— Keference points.—Resemblance and difference between localization in the future and in the past.—All memory an illusion.—Forgetfulness a condition of memory.-Return to the startingpoint: conscious memory tends little by little to become automatic.

Chapter II. - General Amnesia.

Chapter 11.— CENERAL AMNESIA.

Classification of the diseases of memory.— Temporary annesia.— Epileptics.— Forgetfulness of certain periods of life.— Examples of re-education.—Slow and sudden recoveries.—Case of provisional memory.— Periodical or intermittent annesia.— Formation of two memories, totally or partially distinct.—Cases of hypnotism recorded by Macnish. Azam. and Dufay.—Progressive nomesia.— Its importance.—Reveals the law which governs the destruction of memory.—Law which governs the destruction of memory.—Law of regression: enunciation of this law.—In what

order memory fails.-Counter-proof: it is reconstituted in inverse order.-Confirmatory facts. Congenital amnesia .- Extraordinary memory of some idiots

Chapter III. - Partial Amnesia.

Reduction of memory to memories, - Anatomical and physiological reasons for partial memories. -Amnesia of numbers, names, figures forms, &c. -Amnesia of signs.-Its nature: a loss of motormemory.-Examination of this point.-Progressive amnesia of signs verifies completely the law of regression.—Order of dissolution: proper of regression.—Order of dissolution: proper names: common nouns: verbs and adjectives; interjections, and language of the emotions; gestures.—Relation between this dissolution and the evolution of the Indo-European languages. Counter-proof: return of signs in inverse order.

Chapter IV .- Exaltation of Memory, or Hypermnesia.

General excitation. - Partial excitation. - Return of lost memories.—Return of forgotten languages.—Reduction of this fact to the law of regression.—Case of false memory.—Examples, and a suggested explanation.

Chapter V.—CONCLUSION.
Relations between the retention of perceptions and nutrition, between the reproduction of recollections and the general and local circulation. Influence of the quantity and quality of the Idood.— Examples.—The law of regression connected with a physiological principle and a psychological principle.—Recapitulation.

No. 47.

THE CHILDHOOD OF RELIGIONS.—Embracing a Simple Account of the Birth and Growth of Myths and Legends.-By EDWARD

CLODD, F.R.A.S., author of "The Childhood of the World," "The Story of

Creation." &c.

CONTENTS.

Chapter II — Introductory. [tion, Chapter III.— Legends of the Past about the Crea-Chapter III.— Creation as told by Science. Chapter VIII.-Zoroastrianism, the Ancient Religion of Persia. IX. - Buddhism. Chapter Chapter III.— Creation as told by Science. Chapter IV.— Legends of the Past about Mankind. Chapter V.— Early Races of Mankind. [tions. Chapter VI.— The Aryan, or Indo-European ma-Chapter VII.— The Ancient and Modern Hindu Religions. Chapter X.—The Religions of China.
Chapter XI.—Mohammedanism, or Islam.
Chapter XII.—On the Study of the Bible.

No. 48

LIFE IN NATURE.—By James Hinton, author of "Man and his Dwelling-Place," "The Mystery of Pain," &c.

CONTENTS.

Chapter I.—Of Function; or, How We Act.
Chapter II.—Of Nutrition; or, Why We Grow.
Chapter III.—Of Nutrition; The Vital Force.
Chapter IV.—Of Living Forms; or, Morphology.
Chapter V.—Living Forms.—The Law of Form.
Chapter VI.—Is Life Universal?
Chapter VII.—The Living World.

Chapter VII.—Conclusion.

No. 49.

THE SUN: Its Constitution; Its Phenomena; Its Condition.—
By NATHAN T. CARR, LL.D., Judge of the Ninth Judicial Circuit of Indiana.
With an Appendix by RICHARD A. PROCTOR and M. W. WILLIAMS.

CONTENTS.

```
Section XVI.—The Expansive Power of Heat.
Section XVII.—The Sun's Crust.
Section XVIII.—The Gaseous Theory.
Section XVII.—The Vapor Theory.
Section XXI.—The "Cloud-like" Theory.
Section XXI.—Supposed Supports of the Foregoing Theories.
Section XXII.—The Crust in a Fluid Condition.
                      I.—Purpose of this Essay.—Difficulties
Section
                                   of the Subject.
                  II.—Distance from the Earth to the Sun.
III.—The Diameter of the Sun.
Section
Section
                  IV.—The Form of the Sun.
V.—Rotary Motion of the Sun.
Section
Section
                  VI .- Perturbating Movement.
Section
                                                                                                              Section XXII.—The Crust in a Fluid Condition.
Section XXIII.—Production of the Sun-Spots.
Section XXIV.—The Area of Sun-Spots Limited.
Section XXV.—Periodicity of the Spots.
Section XXVI.—The Spots are Cavities in the
Section VII.—The Sun's Orbital Movement.
Section VIII.—The Sun's Attractive Force.—Den-
                                   sity of the Solar Mass.
                 IX.—The Sun's Atmosphere.
X.—The Chromosphere.
XI.—Corona, Prominences, and Faculæ.
Section
Section
                                                                                                                                                      Sun.
Section
                                                                                                              Section XXVII.—How the Heat of the Sun reaches
the Earth.
Section XXVIII.—The Question of the Extinction
of the Sun.
                 XII. - The Photosphere.
Section
Section XIII .- The Sun's Heat.
Section XIV.—Condition of the Interior.
Section XV.—Effects of Heat on Matter.
```

Appendix.—First.—The Sun's Corona and his Spots.—By Richard A. Proctor.
Second.—The Fuel of the Sun.—By Richard A. Proctor.
Third.—The Fuel of the Sun.—A Reply, by W. M. Williams.

No. 50 and No. 51.

[15 cents each number.

MONEY AND THE MECHANISM OF EXCHANGE.—By W. STANLEY JEVONS, M.A., F.R.S., Professor of Logic and Political Economy in the Owens College, Manchester, England.—In Two Parts.

CONTENTS.

```
Chapter XV.—The Mechanism of Exchange.
Chapter XVI.—Representative Money.
Chapter XVII.—The Nature and Varieties of
Promissory Notes.
                                                                           I. - Barter.
  Chapter
                                                              I.— Barter.
II.— Exchange.
III.— The Functions of Money.
IV.— Early History of Money.
V.— Qualities of the Material of Money.
VI.— The Metals as Money.
  Chapter
  Chapter
  Chapter
                                                                                                                                                                                                                                                                                                                                         Chapter XVIII .- Methods of Regulating a Paper
  Chapter
                                                                                                                                                                                                                                                                                                                                      Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapter Chapte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Currency.
  Chapter
                                                     VII. - Coins.
  Chapter
  Chapter VIII.—The Principles of Circulation.
                                                              IX .- Systems of Metallic Money.
  Chapter
Chapter IX.—Systems of Metallic Money.
Chapter X.—The English System of Metallic Currency.
Chapter XI.—Fractional Currency.
Chapter XII.—The Battle of the Standards.
Chapter XIII.—Technical Matters relating to
  Chapter XIV .- International Money.
```

No. 52.

Impulsion.

THE DISEASES OF THE WILL.—By Th. RIBOT. author of "The Diseases of Memory," &c.—Translated from the French by J. FITZGERALD, A.M.

CONTENTS.

```
Chapter I.—Introduction.—The Question Stated.
Chapter II.—Impairment of the Will.—Lack of Impulsion.
Chapter III.—Impairment of the Will.—Excess of Chapter VI.—Extinction of the Will.
Chapter VII.—Conclusion.
```

No. 53

ANIMAL AUTOMATISM, AND OTHER ESSAYS. - By THOMAS HENRY HUNLLY, LL.D., F.R.S.

CONTENTS

1.-On the Hypothesis that Animals are Automata, and its History.

III .- On Elementary Instruction in Physiology.

IV .- On the Border Territory between the Animal and the Vegetable Kingdoms. V .- Universities: Actual and Ideal

No. 54

THE BIRTH AND GROWTH OF MYTHS. - By EDWARD CLODD, F.R.A.S., author of "The Childhood of the World," "The Childhood of Religions," "The Story of Creation," &c.

CONTENTS.

1.—Nature as Viewed by Primitive Man.
 11.—Personification of the Powers of Nature.
 11.—The Sun and Moon in Mythology.
 1V.—The Theories of Certain Comparative Matchelling.

Mythologists. V .- Aryan Mythology.

VI.—The Primitive Nature-Myth Transformed. VII.—The Stars in Mythology. VIII.—Myths of the Destructive Forces of Nature.

IX .- The Hindu Sun and Cloud Myth. X.—Demonology.

XI.—Metempsychosis and Transformation, XII.—Transformation in the Middle Ages.

XIII.—The Belief in Transformation Universal.

XIII.—The Bellet in Transformation Universal, XIV.—Beast Fables, XV.—Totemism, XVI.—Heraldry: Ancestor-worship, [tives, XVII.—Survival of Myth in Historical Narra-XVIII.—Myths of King Arthur and Llewellyn,

XIX - Semitic Myths and Legends, XX .- Conclusion,

Appendix. - An American Indian Myth.

No. 55.

THE SCIENTIFIC BASIS OF MORALS, AND OTHER ESSAYS. By WILLIAM KINGDON CLIFFORD, F.R.S.

CONTENTS.

I.—On the Scientific Basis of Morals, II.—Right and Wrong; the Scientific Ground of their Distinction.

III .- The Ethics of Belief. IV .- The Ethics of Religion.

No. 56 and No. 57.

[15 cents each number.

ILLUSIONS: A PSYCHOLOGICAL STUDY. - By JAMES SULLY, author of "Sensation and Intuition," "Pessimism," &c.—In Two Parts.

CONTENTS.

Chapter I.—The Study of Illusion. Chapter II.—The Classification of Illusions. Chapter HI. - Illusions of Perception: General.

Chapter IV.—Illusions of Perception (continued). Chapter V.—Illusions of Perception (continued). Chapter VI.—Illusions of Perception (continued). Chapter VII.—Dreams.

NTS.

Chapter VIII.—Illusions of Introspection.

Chapter VIII.—Onasi-Presentative Illusions: Errors of Insight.
X.—Illusions of Memory,
XI.—Illusions of Belief.

Chapter

Chapter XII. - Results.

No. 58 and No. 59.

Two double numbers, 30 cents each.

THE ORIGIN OF SPECIES BY MEANS OF NATURAL SELEC-TION, or the Preservation of Favored Races in the Struggle for Life. - By CHARLES DARWIN, M.A., F.R.S. - New edition, from the sixth and latest English edition, with additions and corrections. - Two double numbers,

CONTENTS.

L.-Variation under Domestication. Caapter H.—Variation under Nature. III.—Struggle for Existence. Coapter Chapter Chapter IV .- Natural Selection; or, the Survival of the Fittest. V.—Laws of Variation. Chapter Chapter VI.—Difficulties of the Theory.
Chapter VII.—Miscellaneous Objections to the Theory of Natural Selection.

Chapter VIII. - Instinct. Chapter IX.-Hybridism. Chapter X .- On the Imperfection of the Geological Record.

Chapter XI.—On the Geological Succession of Organic Beings.
Chapter XII.—Geological Distribution.
Chapter XIII.—Geological Distribution (contin'd).

Chapter XIV .- Mutual Affinities of Organic Beings: Morphology: Embryology: Rudimentary Organs.

Chapter XV.—Recapitulation and Conclusion. Index.—Glossary of Scientific Terms.

No. 60.

THE CHILDHOOD OF THE WORLD.—A Simple Account of Man in Early Times .- By EDWARD CLODD, F.R.A.S., author of "The Childhood of Religions." "The Story of Creation." &c.

```
CONTENTS.
```

PART I. I.— Introductory. II.— Man's First Wants. III.— Man's First Tools. IV.— Fire. V.— Cooking and Pottery. VI.— Dwellings. VII.— Use of Metals. VIII.— Man's Great Age on the Earth. IX.— Mankind as Shepherds, Farmers, and Traders. X.— Language. XI.— Writing. XII.— Man's Wanderings from his first Home. XIV.— Man's Progress in all things. XV.— Decay of Peoples. PART II. XVI.— Introductory. XVII.— Man's First Questions.	XIX.—Myths about Sun and Moon. XX.—Myths about Eclipses. XXI.—Myths about Stars. XXII.—Myths about the Earth and Man. XXIII.—Myths about the Earth and Man. XXIII.—Myths about the Earth and Man. XXIII.—Man's Ideas about the Soul. XXIV.—Belish in Magic and Witcheraft. XXV.—Man's Awe of the Unknown. XXVII.—Idolatry. XXVIII.—Idolatry. XXVIII.—Idolatry. XXVIII.—Nature-Worship. 2. Tree-Worship. 3. Animal-Worship. XXIX.—Polytheism, or Belief in Many God-XXX.—Dualism, or Belief in Two Gods. XXXII.—Sacrifice. XXXIII.—Sonotheism, or Belief in One God. XXXIV.—Three Stories About Abraham. XXXV.—Man's Belief in a Future Life. XXXVI.—Sacred Books.			
XVIII.—Myths.	XXXVII.—Conclusion.			

No. 61

MISCELLANEOUS ESSAYS. - By RICHARD A. PROCTOR, B.A., F.R.A.S., author of "The Sun," "Other Worlds than Ours." "Saturn," &c.

CONTENTS.

V.—Strange Sea Creatures. VI.—The Origin of Whales, VII.—Prayer and Weather. I .- Strange Coincidences. II.—Coincidences and Superstitions. III.—Gambling Superstitions.
IV.—Learning Languages.

No. 62.

[Double number #0 cents.

RELIGIONS OF THE ANCIENT WORLD, including Egypt, THE Assyria and Babylonia, Persia, India, Phoenicia, Etruria, Greece, Rome. - By George Rawlinson, M.A., Camden Professor of Ancient History, Oxford, and Canon of Canterbury .- Author of "The Origin of Nations." "The Five Great Monarchies." &c.

CONTENTS. Chapter I. - The Religion of the Ancient V .- The Religion of the Phoenicians Egyptians. Chapter II.—The Religion of the Assyrians and Carthaginians. Chapter VI.—The Religion of the Etruscans.

Chapter VII.—The Religion of the Ancient and Babylonians. Chapter III. -- The Religion of the Ancient Greeks. Chapter VIII .- The Religion of the Ancient Iranians. Chapter IV .- The Religion of the Early Romans. Concluding Remarks. Sanskritic Indians.

No. 63.

PROGRESSIVE MORALITY.—An Essay in Ethics.—By THOMAS FOWLER, M.A., LL.D., F.S.A., President of Corpus Christi College, Wykeham Professor of Logic in the University of Oxford.

CONTENTS.

I. - Introduction. - The Sanctions of | Chapter III. - Analysis and Formation of the Moral Sentiment.-Its Education Conduct. and Improvement. Chapter II. - The Moral Sanction or Moral Chapter IV.—The Moral Test and its Justification.
Chapter V.—The Practical Application of the
Moral Test to Existing Morality. Sentiment .- Its Functions, and the Justification of its Claims to Superiority.

THE HUMBOLDT PUBLISHING CO., 28 Lafayette Place, New York.

No. 114

THE DISTRIBUTION OF LIFE, Animal and Vegetable, in Space and Time. - By Alfred Russel Wallace and W. T. Thiselton Dyer.

CONTENTS.

SECTION I - DISTRIBUTION OF ANIMALS. to ographical Distribution of Land Animals.

Vertical Distribution of Animals.
 B. Flowers of Dispersal of Animals.
 C.—Widespread and Local Groups. [mals]
 D. Barriers which Limit the Distribution of Animals.

D = Barnie's which Limit the District E = Zoological Regions.

The Edwardte Region.

The Ethiopian Region.

The Oriental Region.

The Asstralian Region.

The Neutralian Region.

The Neutralian Region.

Distribution of the Higher Animals during the Tertiary Period.

A - Tertiary Famas and their Geographical Rela-tions to those of the six Zoological Regions. B - Birthplace and Migrations of some Mamma-han Familles and Genera.

Distribution of Marine Animals.

Foraminifera Spongida. Actinozoa. Polyzon. Echinodermata

Crustacea.

Cirrhipedia. Mollusca. Fishes. Marine Turtles. t'etacea.

General Relations of Marine with Terrestrial Zoological Regions

Distribution of Animais in Time

SECTION II.—DISTRIBUTION OF VEGETABLE LIFE.

THE NORTHERN FLORA

The Arctic-Alpine Flora.

The Intermediate or Temperate Flora. The Mediterraneo-Caucasian Flora

THE SOUTHERN FLORA.

The Antarctic-Alpine Flora. The Australian Flora.

The Andine Flora.

The Mexico-Californian Flora. The South-African Flora.

THE TROPICAL FLORA.

The Indo-Malayan Tropical Flora. The American Tropical Flora. The African Tropical Flora.

No. 65.

CONDITIONS OF MENTAL DEVELOPMENT, and Other Essays.

By WILLIAM KINGDON CLIFFORD, F.R.S., late Professor of Applied Mathematics in University College, London.

CONTENTS.

some of the Conditions of Mental Development. II. - On the Aims and Instruments of Scientific Thought.

III.—A Lecture on Atoms. IV .- The First and the Last Catastrophe.-A criticism on some recent speculations about the duration of the universe.

No. 66.

OTHER ESSAYS.-By TECHNICAL EDUCATION. AND

THOMAS HENRY HUXLEY, F.R.S.

CONTENTS.

 Technical Education. II .- The Connection of the Biological Sciences with Medicine. III. - Joseph Priestly.

IV .- On Sensation and the Unity of Structure of Sensiferous Organs.
V.—On Certain Errors respecting the Structure

of the Heart attributed to Aristotle.

No. 67.

THE BLACK DEATH: An Account of the Deadly Pestilence of the Fourteenth Century.- By J. F. C. HECKER, M.D., Professor in the Frederick William University, Berlin: Member of various learned societies in London, Lyons, New York, Philadelphia, &c.—Translated for the Sydenham Society, of London, by B. G. Babington, M.D., F.R.S.

CONTENTS.

Chapter I.—General Observations. Chapter II.—The Disease.

Chapter III - the russass. Chapter III. - Causes - Spread. Chapter IV. - Mortality Chapter V. - Moral Effects.

Chapter VI .- Physicians

Appendix.

I .- The Ancient Song of the Flagellants.

II .- Examination of the Jews accused of

Poisoning the Wells.

No. 68.

Special number, 10 cents.

LAWS IN GENERAL, AND THE ORDER OF THEIR DISCOVERY. THE ORIGIN OF ANIMAL WORSHIP. - POLITICAL FETICHISM

Three Essays by Herbert Spencer.

No. 69.

[Double number, 30 cents.

FETICHISM.-A Contribution to Anthropology and the History of Religion. - By FRITZ SCHULTZE, Dr. Phil. - Translated from the German by J. FITZGERALD, M.A.

CONTENTS.

Chapter I.—Introductory.
Chapter II.—The Mind of the Savage in its Intellectual and Moral Aspects.

The Intellect of the Savage.
 The Morality of the Savage.

2. The Moranty of the Savage.
3. Conclusion.
Chapter III.—The Relation between the Savage Mind and its Object.
1. The Value of Objects. [jects.
2. The Anthropathic Apprehension of Objects.
3. The Causal Connection of Objects.

The Causal Connection of Objects.
 Chapter IV.—Fetichism as a Religion.
 The Belief in Fetiches.
 The Range of Fetich Influence.
 The Religiosity of Fetich Worshipers.
 Worship and Sacrifice.
 Fetich Priesthoods.

6. Fetichism among Non-Savages.

Chapter V .- The Various Objects of Fetich Wor. 1. Stones as Fetiches. (ship.

2. Mountains as Fetiches.
3. Water as a Fetich.
4. Wind and Fire as Fetiches.

 Wind and Fire as Fetiches.
 Plants as Fetiches.
 Animals as Fetiches.
 Men as Fetiches.
 Men as Fetiches.
 The Highest Grade of Fetichism.
 The New Object.
 The Gradual Acquisition of Knowledge.
 The Worship of the Moon.
 The Worship of the Stars.
 The Transition to Syn. Worship. Chapter

The Worsnip of the Stars.
 The Transition to Sun-Worship.
 The Worship of the Sun.
 The Worship of the Heavens.
 Chapter VII.—The Aim of Fetichism.
 Retrospect.—2. The New Problem.

No. 70.

ESSAYS, SPECULATIVE AND PRACTICAL,—By HERBERT SPENCER.

CONTENTS.

IV .- Reasons for Dissenting from the Philosophy of Comte. V .- What is Electricity?

I.— Specialized Administration. II.— "The Collective Wisdom." III.— Morals and Moral Sentiments.

ANTHROPOLOGY .- By DANIEL WILSON, LL.D., author of "Prehistoric Man."

CONTENTS.

Chapter I.—Scope of the Science. Chapter II.—Man's Place in Nature.

Chapter III.—Origin of Man. Chapter IV.—Races of Mankind.

Chapter V.—Antiquity of Man.
Chapter VI.—Language.
Chapter VII.—Development of Civilization. TO WHICH IS ADDED

ARCHÆOLOGY.—By E. B. Tylor, F.R.S., author of "The Early History of Mankind," "Primitive Culture," &c.

No. 72.

THE DANCING MANIA OF THE MIDDLE AGES.-By J. F. C.

HECKER, M.D., Professor in the Frederick William University, Berlin; author of "The Black Death."—Translated by B. G. Babington, M.D., F.R.S.

CONTENTS.

Chapter I .- The Dancing Mania in Germany and the Netherlands.

Sect. 1.—St. John's Dance. Sect. 2.—St. Vitus's Dance.

Sect. 3.— Causes.
Sect. 4.— More Ancient Dancing Plagues.
Sect. 5.— Physicians.
Decline and Termination of the

Sect. 6 .- Decline and Termination of the Dancing Plague.

Chapter II.—The Dancing Mania in Italy.
Sect. 1.—Tarantism.
Sect. 2.—Most Ancient Traces.—Causes.

Sect. 3.—Increase.

Sect. 4.—Idiosyncracies.—Music. Sect. 5.—Hysteria.

Sect. 6.— Pysteria.
Sect. 6.— Decrease.
Chapter III.— The Dancing Mania in Abyssinia.
Sect. 1.— Tigretier.

Chapter IV .- Sympathy.

THE HUMBOLDT PUBLISHING CO., 28 Lafayette Place, New York

HUMBOLDT LIBRARY THE

EVOLUTION IN HISTORY, LANGUAGE, AND SCIENCE.

Four addresses delivered at the London Crystal Palace School of Art, Science, and Literature.

Ī. Past and Present in the East.—A Parallelism demonstrating the principle of Causal Evolution, and the necessity of the study of General History.— By G. G. ZERFFI, D.Ph., Fellow of the Royal Historical Society of London.

A Plea for a More Scientific Study of Geography.—By Rev. W. A. Hales, M.A., formerly Exhibitioner of Caius College, Cambridge.

III. Hereditary Tendencies as Exhibited in History. - By HENRY ELLIOT Malden, M.A., F.R.H.S., Trinity Hall, Cambridge.

Vicissitudes of the English Language. - By Rev. Robinson Thornton, D.D., F.R.H.S., formerly Fellow of St. John's College, Oxford.

Nos. 74, 75, 76, 77 (double number).

MAN, AND SELECTION RELATION THE DESCENT OF IN TO SEX.—By Charles Darwin.—With Illustrations.—New Edition. Revised and Augmented.

CONTENTS. PART I. THE DESCENT OR ORIGIN OF MAN. Chapter I .- The Evidence of the Descent of Man from some Lower Form.

Chapter II.—On the Manner of Development of
Man from some Lower Form.

Chapter III.—Comparison of the Mental Powers
of Man and the Lower Animals.

Chapter IV.—Comparison of the Mental Powers
of Man and the Lower Animals. of Man and the Lower Animals (continued). Chapter V .- On the Development of the Intellectual and Moral Faculties during Primeval and Civilized Times Chapter VI .- On the Affinities and Genealogy of Man. Chapter VII.-On the Races of Man. Part II.

SEXUAL SELECTION. VIII .- Principles of Sexual Selection. Chanter IX .- Secondary Sexual Character in Chapter the Lower Classes of the AnChapter X .- Secondary Sexual Characters of Insects. XI .- Insects (continued)-Order Lepi-

Chapter doptera(butterflies and moths) XII. - Secondary Sexual Characters of Chapter Fishes, Amphibians, and Reptiles

XIII. - Secondary Sexual Characters of Chapter Birds. XIV. - Birds (continued).

Chapter Chapter XV.—Birds (continued). XVI.—Birds (concluded). Chapter

Chapter XVII. - Secondary Sexual Characters of Mammals.

Chapter XVIII.—Secondary Sexual Characters of Manumals (continued).

PART III. SEXUAL SELECTION IN RELATION TO MAN, AND CONCLUSION.

XIX - Secondary Sexual Characters of Chapter Man. XX .- Secondary Sexual Characters of Chapter

Man (continued).

imal Kingdom. | Chapter XXI.—General Summary and Conclu-**Numbers 74, 75, 76, are single numbers (15 cents each); Number 77 is a double number (30 cents).

Price of the entire work 75 cents.

HISTORICAL SKETCH OF THE DISTRIBUTION OF LAND IN ENGLAND, with Suggestions for some Improvement in the law. By WILLIAM LLOYD BIRKBECK, M.A., Master of Downing College, and Downing

Professor of the Laws of England in the University of Cambridge.

Part 1.

Anglo-Saxon Agriculture. — Geneats and Geburs. — Villani.

II .- Agriculture after the Conquest .- Villeinage,-Copyholders.-Continental Serfs. III.—Origin of Large Properties.—Estates of Anglo-Saxon Nobility.—Evidence of

Domesday IV .- The Soke .- Socage Tenure.

.- Agricultural Communities. VI. - Mr. Seebohm.

VII.—The First Taxation of Land.—The Hide.

VIII - Saxon Law of Succession to Land. IX. - Effect of the Norman Conquest on the Distribution of Land.
X.—Norman Law of Succession.
XI.—Strict Entails.—The Statute "De Donis

Conditionalibus

XII. - Effects of Strict Entails. - Scotch Entails.

CONTENTS. XIII .- Relaxation of Strict Entails .- Common Recoveries

XIV.—Henry VII. and his Nobles.—The Statute of Fines.
XV.—Strict Settlements.

XVI.—Effect of Strict Settlements of Land.—
Mr. Thorold Rogers.
XVII.—Trustees to Preserve Contingent Re-

mainders.
XVIII.—Powers of Sale.

XIX.—Inclosure of Waste Lands.—Mr. John Walter.—Formation of a Peasant Proprietary.

PART II.

L.—Amendment of Law of Primogeniture.
II.—Proposed System of Registration.
III.—Modern Registration Acts.
IV.—The Present General Registration Act.

OF POPULAR SCIENCE.

No. 79.

SCIENTIFIC ASPECTS OF SOME FAMILIAR THINGS.—By W.

M. WILLIAMS, F.R.S., F.C.S.

CONTENTS.

I .- On the Social Benefits of Paraffin.

II.—The Formation of Coal.

III.—The Chemistry of Bog Reclamation.

IV.—The Coloring of Green Tea.

V.—"Iron-Filings" in Tea.

VI.-The Origin of Soap.

VII .- The Action of Frost in Water-Pipes and

on Building Materials.
VIII.—Fire-Clay and Authracite.
IX.—Count Rumford's Cooking-Stoves.

X.—The Air of Stove-Heated Rooms. XI.—Domestic Ventilation.

No. 80.

Double number, 30 cents.

CHARLES DARWIN: HIS LIFE AND WORK, - By GRANT ALLEN.

CONTENTS.

Chapter I .- The World into which Darwin was born.

Chapter II.—Charles Darwin and his Antecedents.

Chapter II.—Early Days.
Chapter IV.—Darwin's Wander-Years.
Chapter IV.—Darwin's Wander-Years.
Chapter VI.—The Period of Incubation.
Chapter VI.—"The Origin of Species."

Chapter VII.—The Darwinian Revolution begins. Chapter VIII.—The Descent of Man.

Chapter Chapter

IX.—The Theory of Courtship.

X.—Victory and Rest.

XI.—Darwin's Place in the Evolution-Chapter

ary Movement. Chapter XII.—The Net Result.

No. 81.

and By J. Allanson Picton. THE MYSTERY OF MATTER: PHILOSOPHY OF IGNORANCE. THE

No. 82.

ILLUSIONS OF THE SENSES: AND OTHER ESSAYS. - By Richard A. Proctor.

CONTENTS.

I .- Illusions of the Senses.

V.—Our Dual Brain.
VI.—A New Star in a Star-Cloud.
VII.—Monster Sea-Serpents. II.—Animals of the Present and the Past.
III.—Life in Other Worlds. VIII .- The Origin of Comets.

IV .- Earthquakes.

No. 83

PROFIT-SHARING BETWEEN CAPITAL AND LABOR. -Six Essays. By Sedley Taylor, M.A., late Fellow of Trinity College, Cambridge, Eng.

CONTENTS.

I .- Profit-Sharing in the Maison Leclaire.

Essay II.—Profit-Sharing in Industry.
Essay III.—Profit-Sharing in Industry.
Essay III.—Profit-Sharing in Industry(continued).
Essay IV.—Profit-Sharing in the Paris and Orleans Railway Company.

Essay V.— Profit-Sharing in Agriculture.

Appendix to Essay V.— Mr. Vandeleur's Irish Experiment.
Essay VI.— Profit-Sharing in Distributive Enter-

prise.

No. 84.

STUDIES OF ANIMATED NATURE.—Four Essays, viz.,

Bats. - By W. S. Dallas, F.L.S.

II.

Dragon-Flies. - By W. S. DALLAS, F.L.S. III.

The Glow-worm and other Phosphorescent Animals.—By G. G. CHIS-HOLM, M.A., B.Sc.

Minute Organisms. - By Frederick P. Balkwill.

No. 85.

ESSENTIAL NATURE OF RELIGION.—By J. ALLANSON PICTON, author of "The Mystery of Matter." &c.

CONTENTS.

I .- Religion and Freedom of Thought. II.—The Evolution of Religion.—Fetichism. III .- Nature · Worship.

IV.—Prophetic Religions. V.—Religious Dogma.—The Future of Religion.

THE HUMBOLDT LIBRARY

No. 86

UNSEEN UNIVERSE.—By WILLIAM KINGDOX CLIFFORD, F.R.S. THE

TO WHICH IS ADDED

THE PHILOSOPHY OF THE PURE SCIENCES. - By WILLIAM KING-DON CLIFTORD, F.R.S.

CONTENTS.

I.—Statement of the Question. II — Knowledge and Peeling.

from Morphine.

III - The Postulates of the Science of Space, IV. - The Universal Statements of Arithmetic.

No. 87.

MORPHINE HABIT (MORPHINOMANIA). - Three Lectures by THE Professor B. Ball, M.D., of the Paris Faculty of Medicine.

CONTENTS.

I.— Morphinomania. — General Description. — Effects of the Abuse of Morphine. 11 -Morphinomania. - Effects of Abstinence

III.- Morphinomania.- Diagnosis, Prognosis and Treatment.

To which is appended four other lectures, viz.,

I.—The Border-Land of Insanity. | II.—Cerebral Dualism.

I — The Earliest Known Life-Relic.

III.- Prolonged Dreams. IV.—Insanity in Twins.

SCIENCE AND CRIME, AND OTHER ESSAYS.—By Andrew Wilson, F.R.S.E.

CONTENTS.

IV.—The Polity of a Pond. V.—Skates and Rays. VI.-Leaves.

II. - About Kangaroos. III .- On Giants.

GENESIS OF SCIENCE. - By Herbert Spencer.

THE TO WHICH IS ADDED

THE COMING OF AGE OF "THE ORIGIN OF SPECIES."-By Professor Thomas Henry Huxley, F.R.S.

No. 50.

No. 89.

NOTES ON EARTHQUAKES: with Thirteen Miscellaneous Essays. By Richard A. Proctor.

CONTENTS.

I - Notes on Earthquakes.
II. - Photographing Fifteen Million Stars.
III. - The Story of the Moon.
IV. - The Earth's Past.
V. - The Story of the Earth.
VI - The Falls of Niagara.

VII - The Unknowable.

VIII. - Sun - Worship.

IX.— Herbert Spencer on Priesthoods.
X.—The Star of Bethlehem and a Bible Comet.
XI.—An Historical Puzzle.
XII.—Galileo, Darwin, and the Pope.
XIII.—Science and Politics.

XIV .- Parents and Children.

No. 91

Double number, 30 cents.

THE RISE OF UNIVERSITIES.—By S. S. Laurie, LL.D., Professor of the Institutes and History of Education in the University of Edinburgh.

CONTENTS.

T — The Romano-Hellenic Schools and their Decline.

Decline.

II.—Influence of Christianity on Education and Rise of Christian Schools.

III.—Charlemagne and the Ninth Century.

IV.—InnerWork of Christian Schools (450-1100).

V.—Tenth and Eleventh Centuries.

VI.—The Rise of Universities (A. D. 1100).

VII.—The Pirst Universities.—The Schola Saler
minan and the Universities (Nather
Nather
Nather-

nitana and the University of Naples. VIII .- The University of Bologna.

IX — The University of Paris.

X.—The Constitution of Universities. — The terms "Studium Generale" and "Universitas."

XI.—Students, their Numbers and Discipline.— Privileges of Universities.—Faculties. XII. - Graduation.

XIII.—Oxford and Cambridge.

XIV.—The University of Prague. XV.—University Studies and the Conditions of Graduation.

No. 92.

Double number, 30 cents.

THE FORMATION OF VEGETABLE MOULD THROUGH Action of Earthworms, with Observations on their Habits.-By Charles Darwin, LL.D., F.R.S.

CONTENTS.

Chapter I.—Habits of Worms.
Chapter II.—Habits of Worms (continued).
Chapter III.—The Amount of Fine Earth brought

up by Worms to the surface. Chapter IV.—The Part which Worms have played in the Burial of Ancient Buildmes.

Chapter V.—The Action of Worms in the Denu dation of the Land. Chapter VI .- The Denudation of the Land con-

tiened). Chapter VII .- Conclusion.

No. 93.

Special number, 10 cents.

SCIENTIFIC OF CAPITAL PUNISHMENT. -- By J. METHODS

MOUNT BLEYER, M.D.

I .- General Review of the Subject.

II.—Death by Hanging. III.—Death by Electricity. IV.—Death by Morphine Injection. CONTENTS.

V.—Death by Chloroform. VI.—Death by Prussic Acid. VII. - Objections Considered.

TO WHICH IS ADDED

INFLICTION OF THE DEATH PENALTY -- By PARK BENJAMIN.

No. 94.

THE FACTORS OF ORGANIC EVOLUTION.—By Herbert Spencer.

No. 95.

THE DISEASES OF PERSONALITY.—By TH. RIBOT.—Translated from the French by J. FITZGERALD, M.A.

CONTENTS.

Chapter IV.—Intellective Disturbance. Chapter V.—Dissolution of Personality. Chapter VI.—Conclusion. Chapter I.—Introduction.
Chapter II.—Organic Disturbance. Chapter III .- Affective Disturbance.

A HALF-CENTURY OF SCIENCE.—By THOMAS HENRY HUXLEY, F.R.S. TO WHICH IS ADDED

THE PROGRESS OF SCIENCE from 1836 to 1886,-By Grant Allen.

No. 97

THE PLEASURES OF LIFE. - By Sir John Lubbock, Bart., M.P.,

F.R.S., D.C.L., LL.D.

PART FIRST. CONTENTS.

Chapter I.—The Duty of Happiness. Chapter II.—The Happiness of Duty. Chapter III.—A Song of Books. Chapter IV.—The Choice of Books. Chapter V.—The Blessing of Friends.

Chapter VI.—The Value of Time. Chapter VII.—The Pleasures of Travet. Chapter VIII.—The Pleasures of Home. IX.—Science, X.—Education. Chapter

Chapter

** Part Second.-For the contents of Part Second see No. 111 of this Catalogue.

No. 98. [Special number, 10 cents. COSMIC EMOTION.—Also, THE TEACHING OF SCIENCE.—By WILLIAM KINGDON CLIFFORD, F.R.S.

NATURE-STUDIES. - Four Essays by various authors, viz.,

- I.-Flame. By Prof. F. R. EATON LOWE.
- II.-Birds of Passage.-By Dr. ROBERT BROWN, F.L.S.
- III.— Snow.— By George G. Chisholm, F.R.G.S.
- IV Caves.—By James Dallas. F.L.S.

THE HUMBOLDT PUBLISHING CO., 28 Lafayette Place, New York.

No. 100

SCIENCE AND POETRY, AND OTHER FSSAYS. - Bv

Andrew Wilson, F.R.S.E.

- L-Science and Poetry.-A Valedictory Address to a Literary Society.
- 11.- The Place, Method, and Advantages of Biology in Ordinary Education.
- III. Science Culture for the Masses. An Opening Lecture at a "People's College."
- IV.—The Law of Likeness, and its Working.

No. 101.

AESTHETICS .- By James Sully, M.A.

CONTENTS.

(A). - Metaphysical Problems.

(B).—Scientific Problems.

(C) .- History of Systems.

II.—German Writers on Æsthetles.
III.—French Writers on Æsthetles.
IV.—Italian and Dutch Writers on Æsthetles.
V.—English Writers on Æsthetles.

The Sources of Dream-Materials.

DREAMS .- By James Sully, M.A.

CONTENTS.

The Dream as Immediate Objective Experience. The Dream as a Communication from a Super-natural Being.

Modern Theory of Dreams.

The Order of Dream-Combinations. The Objective Reality and Intensity of Dream-Imaginations.

TO WHICH IS ADDED

ASSOCIATION OF IDEAS.—By Prof. George Croom Robertson.

No. 102.

ULTIMATE FINANCE.—A True Theory of Co-operation.—By

WILLIAM NELSON BLACK.

Part First.

CONTENTS.

Chapter I.—The Origin of Social Discontent,
Chapter II.—Definition of Capital,
Chapter III.—Men not Capitalists because not
Creators of Capital,
Chapter IV.—Social Results Considered,
Chapter V.—The Evolution of Finance,
Chapter VI.—Every Man his own Householder,

Chapter VII.—Illustrations from Real Life. Chapter VIII.—Effects of Material Growth. Chapter IX.—Objections Answered. Chapter X.—Some Political Reflections.

Appendix.—An Act for the Incorporation of Bond Insurance Companies.

*. Part Second, - For the contents of Part Second see No. 107 of this Catalogue.

No. 103.

1. The Coming Slavery. - 2. The Sins of Legislators. - 3. The Great Political Superstition.—Three Essays by HERBERT SPENCER.

TROPICAL AFRICA. - By HENRY DRUMMOND, LL.D., F.R.S.E., L.G.S.

CONTENTS.

Chapter L.-The Water-Route to the Heart of Africa. - The Rivers Zambesi and Shire.

Chapter II.—The East African Lake Country.-Lakes Shirwa and Nyassa.

Chapter III.—The Aspect of the Heart of Africa.

The Country and its People.
Chapter IV.—The Heart-Disass of Africa.—Its
Pathology and Cure.

Chapter V.—Wanderings on the Nyassa-Tangan-yika Plateau.—A Traveler's blary. Chapter VI.—The White Ant.—A Theory. Chapter VII.—Mimiery.—The Ways of African

Insects.

Chapter VIII.—A Geological Sketch.
Chapter IX.—A Political Warning.
Chapter X.—A Meteorological Note.

OF POPULAR SCIENCE.

No. 105.

SCIENCE AND TEACHING. - By ERNST HAECKEL, IN FREEDOM

Professor in the University of Jena. - With a Prefatory Note by Professor THOMAS HENRY HUXLEY, F.R.S.

CONTENTS.

I .- Development and Creation. Chapter II.—Certain Proofs of the Doctrine of Descent.
Chapter III.—The Skull Theory and the Ape
Theory.
Chapter IV.—The Cell-Soul and the Cellular Psychology.

V .- The Genetic and the Dogmatic Chapter Methods of Teaching.

VI .- The Doctrine of Descent and Chapter Social Democracy.

Chapter VII .- Ignorabimus et Restringamur.

No. 106.

AND ENERGY.—A Theory of Dynamics.—By Grant Allen. FORCE

CONTENTS.

PART I .- ABSTRACT OR ANALYTIC.

Chapter I.- Power. II. - Force. Chapter III. - Energy. Chapter Chapter Chapter V.—The Species of Force.
Chapter V.—The Species of Energy.
Chapter VII.—The Kinds of Kinesis.
Chapter VIII.—The Persistence of Force. IX .- The Conservation of Energy. Chapter

X.—The Indestructibility of Power.
XI.—The Mutual Interference of
Forces. Chapter Interference of Chapter XII.—The Suppression of Energies. XIII.—Liberating Energies. Chapter Chapter

XIV. - Miscellaneous Illustrations. Chapter Chapter XV.—Miscenaneous finistrations.
Chapter XVI.—The Dissipation of Energy.
Chapter XVII.—The Nature of Energy.
Chapter XVII.—The Nature of Motion.

PART II .- CONCRETE OR SYNTHETIC.

I.—Dynamical Formula of the Uni-H.—The Sidereal System. (verse. Chapter Chapter III.—The Solar System.
IV.—The Earth. Chapter Chapter

V.—Organic Life. Chapter VI.—The Vegetal Organism. VII.—The Animal Organism. Chapter fgies. Chapter Chapter VIII .- General View of Mundane Ener-

No. 107.

FINANCE. - A True Theory of Wealth. - By ULTIMATE

WILLIAM NELSON BLACK.

Part Second.

CONTENTS.

I.—The Origin of Property. Chapter II.—The Evolution of Chapter III.—Banking, and its Relation to Accu-

mulation. Chapter IV .- The Relation of Insurance to Accu-

mulation.

Chapter V.—The Creative and Benevolent Features of Fortune-Hunting.
Chapter VI.—Wealth an Enforced Contributor
to the Public Welfare.

Chapter VII.—The Impairment and Destruction of Property.

* PART FIRST. - For the contents of Part First see No. 102 of this Catalogue.

No. 108 and No. 109.

No. 108 is a double number, 30 cents.

ENGLISH: PAST AND PRESENT.—A Series of Eight Lectures by

RICHARD CHENEVIX TRENCH, D.D., Archbishop of Dublin.

CONTENTS.

I .- The English Vocabulary. Lecture Lecture II.—English as it might have been. Lecture III.—Gains of the English Language. Lecture IV .- Gains of the English Language (continued). Lecture V .- Diminutions of the English Lan-

VI .- Diminutions of the English Lan-Lecture guage (continued). Lecture VH.—Changes in the Meaning of English

Words. Lecture VIII.-Changes in the Spelling of English Words.

Index of Subjects .- Index of Words and Phrases

THE HUMBOLDT PUBLISHING CO., 28 Lafayette Place, New York.

No. 110

Double number, 30 cents.

THE STORY OF CREATION.—A Plain Account of Evolution.

By Epward Chopp, author of "The Childhood of the World," "The Childhood

of Religions," "The Birth and Growth of Myths," &c. - Evolty Illustrations,

CONTENTS.

Chapter $1 \to x$.

E. Matter. I - The Universe, its Contents, Matter
 Power. a. Force.

b. Energy.

- Chapter H = Distribution of Matter in SPACE.
- Chapter III. THE SUN AND PLANETS. The Earth: General Features.
- Chapter IV THE PAST LIFE-HISTORY OF THE EARTH.
 - Character and Contents of Rocks of 3. Tertiary Epoch. Primary Epoch.
- 4. Quaternary Epoch. Secondary Epoch. Chapter V .- Present Life Forms.
 - Physical Constituents and Unity. A. Plants.
- 1. Flowerless. 2. Flowering. B. Animals.
- Annulosa,
 Mollusca, Protozoa. Collenterata. Mollusca.
 Vertebrata. 3. Echinodermata.
- Chapter VI.—The Universe: Mode of its Becoming and Growth.
- 1. Inorganic Evolution. 3. Evolution of the 2. Evolution of the So-
- Chapter VII.-THE ORIGIN OF LIFE. Time.—Place.—Mode.

lar System.

- Chapter VIII .- The Origin of Life Forms. Priority of Plant or Animal. Cell-Structure and Development.
- Chapter IX.—The Origin of Species. Argument:
- 1. No two individuals of the same species are alike. Each tends to vary.
- 2. Variations are transmitted and therefore tend to become permanent.
 3. Man takes advantage of these transmitted un-
- likenesses to produce new varieties of plants and animals.
- More organisms are born than survive.
- 5. The result is obvious: a ceaseless struggle for place and food.
- 6. Natural selection tends to maintain the balance between living things and their surroundings. These surroundings change: therefore living things must adapt themselves thereto, or perish.
- Chapter X .- Proofs of the Derivation of SPECIES.
- 1. Embryology. 4. Succession in Time. Morphology. 5. Distribution in Space.
- 3. Classification. Objections. Chapter XI.-SOCIAL EVOLUTION.
- 1. Evolution of Mind. 4. Evolution of Morals, 2. Evolution of Society. 5. Evolution of Theol-
- 3. Evolution of Language, ogy. Arts, and Science. Summary.

No. 111.

OF LIFE .- By Sir John Lubbock, Bart., M.P., THE PLEASURES F.R.S., D.C.L., LL.D.

Part Second.

CONTENTS.

- Chapter I.—Ambition. Chapter II.—Wealth.
- Chapter III. Health.
- Chapter VIII.—The Beauties of Nature. Chapter IX.—The Troubles of Life. Chapter X.—Labor and Rest. Chapter XII.—Religion. Chapter XII.—The Hope of Progress. Chapter XIII.—The Destiny of Man. Chapter IV.—Love. Chapter V.—Art. Chapter VI.—Poetry. Chapter VII.—Music.
 - .*. PART FIRST. For the contents of Part First see No. 97 of this Catalogue.

No. 112.

PSYCHOLOGY OF ATTENTION.—By TH. RIBOT.—Translated from the French by J. Fitzgerald, M.A.

CONTENTS.

- Chapter L.-Purpose of this Treatise: study of the mechanism of Attention .-Attention defined.
- Chapter II.—Spontaneous or Natural Attention. Its cause always affective states. Its physical manifestations.— Attention simply the subjective side of the manifestations that express it.—Origin of Spontaneous Attention.
- Chapter III.—Voluntary or Artificial Attention. How it is produced.—The three principal periods of its genesis:

- action of simple feelings, complex feelings, and habits.-Mechanism of Voluntary Attention .- Attention acts only upon the muscles and through the muscles.- The
- feeling of effort. Chapter IV.—Morbid States of Attention.—Distraction.—Hypertrophy of Attention.—Atrophy of Attention.—Attention in idiots.
- Chapter V .- Conclusion .- Attention dependent on Affective States. - Physical Condition of Attention.

No. 113.

Double number, 30 cents,

HYPNOTISM: ITS HISTORY AND PRESENT DEVELOPMENT.

By Fredrik Björnström, M.D., Head Physician of the Stockholm Hospital, Professor of Psychiatry, late Royal Swedish Medical Councillor. - Authorized Translation from the Second Swedish Edition, by Baron Nils Posse, M.G., Director of the Boston School of Gymnastics.

CONTENTS.

I .- Historical Retrospect. II .- Definition of Hypnotism .- Susceptibility to

Hypnotism. III.—Means or Methods of Hypnotizing, IV.—Stages or Degrees of Hypnotism. V.—Unilateral Hypnotism. VI.—Physical Effects of Hypnotism.

VII.—Psychical Effects of Hypnotism.
VIII.—Suggestion.
IX.—Hypnotism as a Remedial Agent.
X.—Hypnotism as a Means of Education or
as a Moral Remedy.
XI.—Hypnotism and the Law.
XII.—Misuses and Dangers of Hypnotism.
Bibliography of Hypnotism.

No. 114.

Double number, 30 cents.

CHRISTIANITY AND AGNOSTICISM.—A Controversy.—Consisting of papers contributed to The Nineteenth Century by Henry Wace, D.D., Prof.

THOMAS H. HUXLEY, THE BISHOP OF PETERBOROUGH, W. H. MALLOCK. Mrs. HUMPHRY WARD.

CONTENTS.

I.—On Agnosticism.—By Henry Wace, D.D., Prebendary of St. Paul's Cathedral: Principal of King's College, London. H .- Agnosticism .- By Professor Thomas H.

HUXLEY.

III. - Agnosticism. - A Reply to Prof. HUXLEY. By HENRY WACE, D.D. IV. - Agnosticism. - By W. C. MAGEE, D.D.,

Bishop of Peterborough.

V.-Agnosticism. - A Rejoinder. - By Prof.
THOMAS H. HUXLEY.
VI.-Christianity and Agnosticism. - By
HENRY WACE, D.D.

VII.—Au Explanation to Prof. Huxley.— By W. C. Magee, D.D., Bishop of Peter-borough.

VIII.—The Value of Witness to the Mirac-ulous.—By. Prof. THOMAS H. HUXLEY.

IX.-Agnosticism and Christianity.-By Prof. Thomas H. Huxley.

X.- "Cowardly Agnosticism."-A Word with Prof. HUXLEY.-By W.H.MALLOCK.

XI. - The New Reformation. - By Mrs. HUMPHRY WARD.

No. 115 and No. 116.

Two double numbers, 30 cents each.

DARWINISM: AN EXPOSITION OF THE THEORY OF NATURAL SELECTION, with some of its applications. - By Alfred Russel Wallace, LL.D., F.L.S., &c .- With Portrait of the Author, Colored Map, and numerous illustrations

CONTEXTS.

Chapter I.—What are "Species," and what is meant by their "Origin."
Chapter II.—The Struggle for Existence.
Chapter III.—The Variability of Species in a State of Nature.
Chapter IV.—Variation of Domesticated Animals

Chapter IV.—Variation of Domesticated Animals and Cultivated Plants.
Chapter V.—Natural Selection by Variation and Survival of the Fittest.
Chapter VI.—Difficulties and Objections.
Chapter VII.—On the Infertility of Crosses between Distinct Species, and the usual Sterility of their Hybrid Offstwing.

Offspring.

Chapter VIII .- The Origin and Uses of Color in Animals. IX.-Warning Coloration and Mimiery.

Chapter X .- Colors and Ornaments character-

istic of Sex.

XI.—The Special Colors of Plants.—
Their Origin and Purpose.

Chapter XII .- The Geographical Distribution of Organisms.

Chapter XIII .- The Geological Evidences of Evolution.

Chapter XIV.—Fundamental Problems in Relation to Variation and Heredity. Chapter XV .- Darwinism applied to Man.

The present work treats the problem of the Origin of Species on the same general lines as were adopted by Darwin; but from the standpoint reached after nearly thirty years of discussion with an abundance of new facts and the advocacy of many new or old theories.

While not attempting to deal, even in outline, with the vast subject of evolution in general, an endeavor has been made to give such an account of the theory of Natural Selection as may enable any intelligent reader to obtain a clear conception of Darwin's work, and to understand something of the power and range of his great principle.—Extract from the Preface.

No. 117.

(Double number, 30 cents

MODERN SCIENCE AND MODERN THOUGHT .- A Clear and Concise View of the Principal Results of Modern Science, and of the Revolution which they have effected in Modern Thought. By S. LAING.

PART I.

MODERN SCIENCE.

CONTENTS.

Clapter I.—Space.

Itemative bleas Natural Standards, Dimensions of the Earth—O. Sun and Solar Schulm and Other Universe. The Leavest and the Indian and Other Universes. The Leavest and the Indianely Great. The Meroscope and the Indianely Great. The Meroscope and the Indianely Great The Meroscope and the Indianely Sonall Uniformity of Law Law of Gravity—Acts through all Space Double Stars, Comets, and Meteors—Has acted through all time.

Acted through an time.

Chapter II.— Time.
Evidence of Goology Stratification Demidation-Strata
Identified by Superposition By Fossile Goological Record
shown by Upturned Strata General Result—Paleozou and
Frimary Periods—Secondary—Tertury—Time requiredtons Formation Chalk Elevations and Depressions of Land
Internal Plant of the Earth Earthiparks and Volcaniose—
Change of Fanna and Flora—Astronomical Time—Tilles and
the Moon—Sun's Endiation—Earth's Cooling—Geology and
Astronomy—Bearings on Modern Thought.

Chapter III.—Matter.

Ether and Light Color and Heat-Matter and its Elements.

Molecules and Atoma-Spectroscope—Uniformity of Matter throughout the Universe—Force and Motion Conservation of Energy—Electricity, Magnetism, and Chemical Action—Dissipation of Heat—Birth and Peath of Worlds.

ressipation of Heat—Birth and Death of Worlds.

Chapter IV.— Life.

Essence of Life—Simplest form, Protoplasm—Monera and Prolista—Animal and Vecetable Life—Spontaneous Generation—Development of Species from Primitive Cells—Supernatural Theory—Zoological Provinces—Separate Creations—Law or Mirnele—Darwinan Theory—Struggle for Life—survival of the Fittest—Development and Design. The Hand—Proof required to establish Darwin's Theory as a Law—Species—Hybrids—Man subject to Law.

Chapter V .- Antiquity of Man.

Chapter V.—Antiquity of Man.

Bellet in Muric Recent Orizon Bancher de Pertica Decoveres—Confirmed by Prestauch Nature of Implements (2th. 8. rapers, and Flakes—Human Bernalus in River Durit.—Great Antiquity—Implements from Drift at Bournemont.—Bone-caves—Kent's Cavern—Victoria Gower, and other Caves—Caves of France and Belgium—Ages of Cave Bear, Manmoth, and Bendert Arthetic Rac—Prawings of Manmoth, Ac.—Human Types—Neanderthal, Cre-Magnon, Fireford & Attempts to its Patien-History—Fronze Age—Neathfield—Prod-Traces of Ices—Causes of Baic-Gave History—Hory—Frided—Traces of Ices—Causes of Baic-Gave—Frided Stream—Dates of Glavial Period—Rives of Ices—Causes of Glaviar—Croff Fronzy—Fride Stream—Dates of Glavial Period—Rives—Exidence for Pilocene and Miscene Man—Conclusions as to Antiquity

Chapter VI .- Man's Place in Nature.

Chapter VI.—Man's Place in Nature.

Origin of Man from an Egg—Like other Mammals—Development of the Embryo—Eackbone—Eye and other Organs of Sense—Fish, Reptile, and Mammulan Stages—Comparison with Apea and Monkeys—Germs of Human Faculties in Animals—The Dog—Inserts—Replicaseos of Human Infant—Instinct—Heredity and Evolution—The Missing Link.—Rece of Men—Leading Types and Varieties—Common Origin Distant—Language—How Formed—Grammar—Chinece, Aryan, Semitic, &c.,—Conclusions from Language—Evolution and Antiquity—Religions of Savage Rocs—Ghosts and Spirits Anthrapomorphic Delites—Traces in Neolithic and Paicelithic Times—Development by Evolution—Printive Arte-Tools and Weapons—Fire—Flint Implements—Progress from Palacidithe to Neolithic Times—Doucaste Animals—Civiling—Ornaments—Conclusion, Man a Product of Evolution.

No. 118.

[Single number, 15 cents.

MODERN SCIENCE AND MODERN THOUGHT.-With a Supplemental Chapter on Gladstone's "Dawn of Creation" and "Proem to Genesis," and on Drummond's "Natural Law in the Spiritual World."-By S. LAING.

Part II.

MODERN THOUGHT.

CONTENTS.

Chapter VII .- Modern Thought.

Chapter VII.— MORCHI THOUGHI.

Lines from Tennyaon - The Gospel of Modern Thought—
Charge exemplified by Carlyle, Renau, and George Elut—
Science be coming universal - Attitude of Orthodox WriteraOrizm of Evil—First Come unknowable—New Philosophics
and Religions—Herbert Spencer and Agnostician—Comte
and Positivism—Pessimism—Mormonism—Spiritualism—
Breams—and Visions—Sommanbulism—Mesmerism—Great
Modern Thinkers—Carlyle—Heroevorchip.

Chapter VIII. - Miracles.

Chapter VIII.— Miracles.

Origin of Belief in the Supernatural-Thunder—Belief in Miracles formerly Universal—St. Paul's Teatimony. Now Incredible. Our stain Miracles. Apparent Miracles.—Head Miracles.—Alexad Mi

Chapter IX .- Christianity Without Miracles.

Chapter IX.—Christianity Without Miracles.
Practical and Theoretical Christianity—Example and
Teaching of Christ - Christian Dogma—Moral Objections. Itconsistent with Facts—Must be accepted as Brailles—Ex,
and Redemption—Old Creeds must be Transformed or theModammedaniam—Decay of Faith—Balance of Advantages
Religious Wars and Persecutions—Intolerance—Sacrifice—
Prayer—Absence of Theology in Sympotic Gospels—Opposit
Pole to Christianity—Courage and Selfrediance—Ballef in
God and a Fature Life-Based Mainly on Christianity Secence gives no Answer—Nor Metaphysics—Secalled Institions—Development of Idea of God-Beet Proof altoried by
Christianity—Evolution is Transforming it—Reconcliation
of Religion and Science. of Religion and Science

Chapter X .- Practical Life.

Conscience - Right is Right - Self-reverence - Courage -Respectability - Influence of Press - Respect for Women-Self-respect of Nations - Democracy and Imperialism - Self-knowledge - Concell - Luck - Speculation - Money-making -Frue tical Aims of Life-Self-central - Conflict of Reason and Instinct - Temper - Manners - Good Rabits in Youth - Suc-cess in Practical Life - Education - Stociesm - Conclusion

Supplemental Chapter - Gladstone's "Dawn of Creation" and "Proem to Genesis." - Drummond's Natural Law in the Spiritual World."

No. 119.

THE ELECTRIC LIGHT.—How the Electric Current is Produced. How the Electric Current is made to yield the Electric Light.

By GERALD MOLLOY, D.D., D.Sc., Fellow of the Royal University.-With numerous illustrations.

CONTENTS.

I.—How the Electric Current is Produced.

I.—How the Electric Current is Produced.

First Discovery of Induced Currents—Faraday's Experiments described and repeated—First machines founded on Faraday's discovery—Pixii. Saxton, Clarke—New form of Armature invented by Siemens—Machines of the Alliance Company in France and of Holmes in England—Wilde's machine—A new principle discovered—Ladd's machine—The machines of Gramme and Siemens—Ideal skelction of Gramme's machine—The principle of its action explained—Details of construction—The Volta Prize awarded to Gramme for bis invention—The machine of Siemens, how it differs from that of Gramme—Most other machines constructed on one or other of these two types—The dynamo does not create energy, but converts mechanical energy into electrical energy.

II .- How the Electric Current is made to yield the Electric Light.

the Electric Light.

Simplest form of Electric Light—Principle of the Electric
Light—Sir Humphry Davy's experiment—I we types of Electric Light—Electric Light—Pubasco's Lamp—New forms of
Arc Lamp—The Jablachkoff Candle—The Incandescent Light—
Platinom Spiral—Why Carbon is preferred to Platinom—
A perfect vacuum—Elements of Incandescent Lamp—Preparation of the filament—Exhibar's process—Swaris process—Carbonization of the filament—Exhibar's process—Carbonization of the filament—Exhibar's process—Swaris process—Carbonization of the filament—Exhibar's forcess—Swaris process—Carbonization of the filament—Exhibar's forcess—Swaris process—Carbonization of the filament—Exhibation of the giass gione
—Light without heat—The Arc Light and the Incandescent
Light compared—Comparison with other kinds of light—How
for the Electric Light is now available for use—Transformations of Energy illustrated by the Electric Light.

TO WHICH IS ADDED

THE STORING OF ELECTRICAL ENERGY.-The Recent Progress and Development of the Storage Battery.- By the

same author. - With numerous illustrations.

CONTENTS.

CON

A "marvelous box of electricity"—What is meant by the storing of energy—Examples of energy stored up—A suspended weight—A watchspring wound up—A stretched cross-bow—A flywhed—Energy stored up in clouds and rivers—Energy stored up in a coal-mine—Energy stored up in acparated gase—Storing of electrical energy not a new idea—Energy stored up in a Leyden jar—In a thunder-cloud—In a voltaic battery—Principle of the storage battery—Experiment showing production of secondary current—Gradual develop-

ment of the principle-Ritter's secondary pile-Grove's gas-battery-Experiments of Gaston Plante-The Plante second-ary cell-Faure's improvement-What a storage battery ca-do-Practical illustrations-Convenience of the storage bat-tery for the production of the electric light-The storage bat-tery as a motive power-Application of the storage bat-tery as a motive power-Application of the storage battery tram-cars and private carriages-The storage battery of the

RECENT PROGRESS AND DEVELOPMENT OF THE STORAGE BATTERY.

Unexpected difficulties—Modifications of the Faure cell— Internal resistance diminished—New mode of preparing the plates—An alloy substituted for pure lead—The paste of lead oxide—Improved method of maintaining insulation of the

plates—Newest form of cell—Buckling of the plates—The available energy of a cell—Rate at which the energy can be drawn off—Application to tram-cars and to electric lighting.

THE MODERN THEORY OF HEAT, as Illustrated by the Phenomena of the Latent Heat of Liquids and of Vapors.-By

GERALD MOLLOY, D.D., D.Sc., Fellow of the Royal University .- With numerous illustrations.

CONTENTS.

I.—The Latent Heat of Liquids.

Modern theory of heat—Heat a form of Energy—Familiar illustrations — Count Rumford's experiment — Argument founded on the experiment—Heat produced by expenditure of Electrical Energy—Latent Heat—Black's experiments—Heat disappears when ice is melted—Explanation of this fact according to the old theory—Explanation offered by the modern theory—Latent Heat varies for different liquids—Freezing mixtures—Heat developed when a liquid becomes solid—Water heated in freezing—Experiment with solution of sulphate of soda—Latent Heat in the economy of Nature.

II .- The Latent Heat of Vapors.

11.—The Latent Heat of Vapors.

Heat expended when water is boiled—This fact considered in the light of the modern theory—Method of measuring the quantity of heat so expended—Heat developed when steam is condensed—Experimental illustration—Heating of buildin, 25 by steam—Heat expended in evaporation—Various illustrations—Cold produced by evaporation of ether—Water frozen by exporation—Leslie's experiment—faire's apparatus—Production of solid carbonic acid—Freezing of mercury—Latent Illeat of clouds—Effect in the economy of Nature—Summary.

TO WHICH IS ADDED

THE SUN AS A STOREHOUSE OF ENERGY.-Immensity of the Sun's Energy.-Source of the Sun's Energy.-By the same

author. - With numerous illustrations.

II .- Source of the Sun's Energy.

11.— Source of the Sun's Energy.

The sun is not a great fire—Such a fire would be borned by the products of combustion—And besides it would be borned out in course of time—Difference bett-like would be borned combustion—I rac tie increase better the sun is maintained. The sun is maintained by the sun is sundiscence—Theory of Sir William Thomson—Meteors or Falling Sers—Heat developed when such bodies fall into the sun—Hustration from a bollet striking a target—This theory now abandoned—Theory of Helm-loltz—Heat of the sun produced by compression of his mass—Heat lost by radiation is restored by further compression—This theory probable and sufficient—Bearing of the Nebular Hypothesis—The past energy of the sun—Summary.

I .- Immensity of the Sun's Energy.

1.— Immensity of the Sun's Energy.

Nearly all the energy available to man is derived from the sun—Water-power—Wind-power—Steam-power—Muscular power—Electrical power—Hold power an exception—Energy of the tides derived from rotation of the earth on its axis—Only a small fraction of the energy which the earth derives from the son is used by man—And the energy which the earth receives is only a small fraction of what the sum sends forth—Measurement of energy sent out by the sun—Experiments of Pouillet and Herschel — Apparatos employed—Method of adjustment—Observations unade—Corrections—Practical estimate of the energy sent out by the sun—What a wonderful is torchouse of energy the sun must be—How is this storchouse supplied?

THE HUMBOLDT PUBLISHING CO., 28 Lafayette Place, New York.

THE HUMBOLDT LIBRARY

UTILITARIANISM. By John Steam Mill, author of "A System of Logie." "Principles of Political Economy," "On Liberty," &c.

CONTLATS.

Chapter I = General Remarks.
Chapter II.= What Utilitarianism is.
Chapter III.= Of the Ultimate Sanction of the Principle of Utility.

Chapter IV - Of what sort of Proof the Principle of Uthity is susceptible.
Chapter V.—Of the Connection between Justice and Utility.

No. 122 and No. 123,

[No. 122 is a double number, 30 cents,

UPON THE ORIGIN OF ALPINE AND ITALIAN LAKES: AND UPON GLACIAL EROSION. By Sir A. C. RAMSAY, F.R.S., President of the Geological Society. – John Ball, M.R.I.A., F.L.S., &c. – Sir Roderick I. MURCHISON, F.R.S., D.C.L., President of the Royal Geographical Society. Prof. B. Studer, of Berne,—Prof. A. Favre, of Geneva,—Edward Whymple.— With an Introduction and Notes upon the Origin and History of the Great Lakes of North America, by Prof. J. W. Spencer, State Geologist of Georgia.

CONTENTS.

Introduction with Notes upon the Origin and History of the Great Lakes of North America.— By J. W. Spencer, Ph.D. F.G.S., State Geologist of Georgia

1 - On the Glacial Origin of Certain Lakes in 8 stitzerland the Black Forest, Great Britain, 8 weden North America, and Elsewhere. - By Sir A C. ROMSAY P.R.S., President of the Geological

| H = On the Formation of Alpine Valleys and Alpine Lakes. = By John Balli, M. R. I. A., F. L. S., &c.

HI.—Cheiers of the Himalayan Mountains and New Zealand compared with those of Europe.— On the Powers of Glaciers in Modifying the Sur-

face of the Earth, and in the agency of Floating leebergs. — By Sir RODERICK I. MURCHISON, K.C.B., D.C.L., F.R.S., &c. IV.—On the Origin of the Swiss Lakes.—By

Prof. B. Studer, of Berne.

V .- On the Origin of the Alpine Lakes and V.—On the Origin of the Alpine Lakes and Valleys. A better addressed to Sir Roberler I. MURCHISON, K.C.B., D.C.L., &c., by M. Alpinonse Favire, Professor of Geology in the Academy of Geneva, author of the Geological Map of Savoy, VI.—The Ancient Glaciers of Aosta.—By Ed-

WARD WHYMPER.

VII.—Glacial Erosion in Norway and in High Latitudes.—By Professor J. W. Spencer Ph.D., F.G.S., State Geologist of Georgia.

No. 124

THE QUINTESSENCE OF SOCIALISM.—By Dr. A. Schäffle.—Translated from the eighth German edition under the supervision of Bernard Bosan-QUET, M.A., formerly Fellow of University College, Oxford.

CONTENTS.

Chapter L-First Outlines of the Funda-MENTAL IDEA OF SOCIALISM.

Chapter H .- The Means of Agitation.

The Socialistic criticism of capital.—Profit as appropriation of surplus value. —Property as thatt - Palse interpretations of these allegations is futed. - Ultimate buying out of the modern plutocrats.

Chapter III. - Proposed Transformation of THE SEVERAL FUNDAMENTAL INSTITUTIONS OF Modern National Economy.

Determination of demand. - Freedom of demand. Organization of labor and capital into a system of ollective production.—False interpretations retubed.—The doctrine of value as depending on sheer labor-cost useless for a practical organization of labor and capital.

Chapter IV. - Transformation of Institu-TION'S (continued).

Abolition of all loan-capital, of credit, of lease, it hire and of the exchange.

Chapter V. - Transformation of Institu-TIONS continued).

Abolition of trade in "commodities," and of the

market for them, and of the system of advertisement and of display of wares.

Chapter VI. - Transformation of Institu-TIONS (continued.)

Abolition of metallic money as the medium of Adonation of increase inducy as the increase of exchange, and its replacement as "standard of value" by units of "social labor-time" ("labor-money"). The value estimate of the Socialistic State compared with the present market-price.

Chapter VII. - Transformation of Institu-TIONS (continued.)

The Socialistic determination of value in exchange, and freedom of labor in the Socialistic State.

Chapter VIII. - Transformation of Institu-TIONS (continued).

Income, and the use of income in the formation of property, and in consumption.—Private property and the law affecting it.—Family life and marriage. - Savings banks and insurance system. Expenditure on charitable.humanitarian, religious, and other ideal purposes.

> Chapter IX. - Concersion. Summary of criticisms.

No. 125.

DARWINISM AND POLITICS.—By DAVID G. RITCHIE, M.A., Fellow and

Tutor of Jesus College, Oxford.

CONTENTS.

"The Struggle for Existence" in Malthus and Darwin.—How the idea is applied to politics.—Is the struggle "beneficent"?

The Evolution Theory as applied to Human Society by Darwin, Strauss, Spencer, Maine, Clodd.

Ambiguity of the phrase "Survival of the Fittest."—Complexity of Social Evolution.

Does the Doctrine of Heredity support Aristocracy?

Does the Evolution Theory justify Laissez faire? Struggle between ideas for survival.—Consciousness as a factor in Evolution.—Testimony of Prof.

Huxley and Strauss.—Ambiguity of "Nature."—Conscious "Variations."

Why fix ideas in institutions?—Custom: its use and abuse.—Institutions and "the social factor" generally are neglected in the popular acceptation of the doctrine of Heredity.—Mr. Galton's views considered.—Darwin's own opinion.

Are the Biological Formulæ adequate to express Social Evolution $\dot{\cdot}$

 $\label{eq:applications} \textbf{Applications--(1) The Labor Question.--(2) The Position of Women.--(3) The Population Question.}$

TO WHICH IS ADDED

ADMINISTRATIVE NIHILISM .- By Prof. THOMAS HENRY HUXLEY, F.R.S.

No. 126 and No. 127.

[Two double numbers, 30 cents each.

PHYSIOGNOMY AND EXPRESSION.—By PAOLO MANTEGAZZA, Senator:

Director of the National Museum of Anthropology, Florence; President of the Italian Society of Anthropology.

CONTENTS.

PART I .- THE HUMAN COUNTENANCE.

Chapter I.—Historical Sketch of the Science of Physiognomy and of Human Expression.

Chapter II .- The Human Face.

Chapter III.—The Features of the Human Face.

Chapter IV.—The Hair and the Beard.—Moles. Wrinkles.

Chapter V.—Comparative Morphology of the Human Face.

PART II.—THE EXPRESSION OF EMOTIONS.

Chapter VI.-The Alphabet of Expression.

Chapter VII.-The Darwinian Laws of Expression

Chapter VIII.—Classification of Expressions.— General View of all Phenomena of Expression.

Chapter IX .- The Expression of Pleasure.

Chapter X.—The Expression of Pain.

Chapter XI.—Expression of Love and of Benevolence.

Chapter XII.—Expression of Devotion, of Veneration, and of Religious Feeling.

Chapter XIII.—Expression of Hatred, of Cruelty, and of Passion.

Chapter XIV.—The Expression of Pride, Vanity, Haughtiness, Modesty, and Humiliation.

Chapter XV.—Expression of Personal Feelings. Fear. Distrust.—Description of Timidity, according to the old Physiognomists. Chapter XVI .- The Expression of Thought.

Chapter XVII.—General Expressions.—Repose and Action, Disquietude, Impatience, Expectation, Desire.

Chapter XVIII.— Racial and Professional Expression.

Chapter XIX.—The Moderaters and Disturbers of Expression.

Chapter XX.—Criteria for the Determination of the Strength of an Emotion by the degree of the Expression

Chapter XXI.—The Five Verdicts on the Human Face.

Chapter XXII.—Criteria for Judging the Moral Worth of a Physiognomy.

Chapter XXIII.—Criteria for Judging the Intellectual Value of a Face.

Chapter XXIV.—The Physiognomy of Gestures and the Expression of Clothes.

APPENDIX.—The Eyes, Hair, and Beard, in the Italian Races.

This work, by Professor Mantegazza, a brilliant and versatile author, and the leading Italian anthropologist, has already been translated into several European languages. Professor Mantegazza, whose name is well known to readers of Darwin, has coöperated in the present English edition of his work by writing a new chapter specially for it. No. 128 and No. 129.

[Two double numbers, 30 cents each.

THE INDUSTRIAL REVOLUTION OF THE EIGHTEENTH CENTURY IN ENGLAND. - Popular Addresses, Notes, and other Frag-

ments .- By the late Arnold Toynbee, Tutor of Balliol College, Oxford .-Together with a short memoir by B. Jowett, Master of Balliol College, Oxford,

CONTENTS.

RICARDO AND THE ULD POLITICAL ECONOMY.

Ţ The change that has come over Political Econemy .- Ricardo responsible for the form of that Science.—The causes of his great influence.—The economic assumptions of his treatise.—Ricardo agnorant of the nature of his own method.— Malthus's protest.—Limitations of Ricardo's doc-Mattins's protest.—Imminitions of Arcardo's nor-trine recognized by Mill and Senior.—Observation discouraged by the Deductive Method.—The effect of the Labor Movement on Economics.—Modifica-tions of the Science by recent writers.—The new method of economic investigation.

The philosophic assumptions of Ricardo.-They are derived from Adam Smith.—The worship of individual liberty.—It involves freedom of competition and removal of industrial restrictions.— The flaw in this theory.—It is confirmed by the doctrine of the identity of individual and social interests.—Criticism of this doctrine.—The idea of invariable law.—True nature of economic laws. Laws and Precepts.—The great charge brought against Political Economy.—Its truth and its etition and removal of industrial restrictions. falsehood.

11

THE INDUSTRIAL REVOLUTION.

I. - Introductory.

II.—England in 1760.—Population.

III. - England in 1760. - Agriculture.

IV .- England in 1760.- Manufactures and

V .- England in 1760 .- The Decay of the

VI.- England in 1760.-The Condition of the Wage-earners.

Popular Addresses.

- 1. Wages and Natural Law.
- 2. Industry and Democracy,
- 3. Are Radicals Socialists?

VII.—The Mercantile System and Adam Smith.

VIII.—The Chief Features of the Revolution.

IX.—The Growth of Pauperism.

X .- Malthus and the Law of Population.

XI.—The Wage-fund Theory.

XII .- Ricardo and the Growth of Rent.

XIII. Two Theories of Economic Progress,

XIV .- The Future of the Working Classes.

The Education of Co-operators.

The Ideal Relation of Church and State.

Chapter IV .- The Aryan Race.

Chapter V .- The Evolution of Aryan Speech.

Notes and Jottings.

The Permanence of Race.
 The Mutability of Language.

2. The Amedomy of Tana.
3. The Finnie Hypothesis.
4. The Basques.

5. The Northern Races.

No. 130 and No. 131.

[Two double numbers, 30 cents each.

THE ORIGIN OF THE ARYANS.-An Account of the Prehistoric Ethnology and Civilization of Europe, - By Isaac Taylor, M.A., Litt, D., Hou, LL.D.—Illustrated.

CONTENTS. Chapter I .- The Aryan Controversy,

Chapter II .- The Prehistoric Races of Europe.

1. The Neolithic Age. 2. The Methods of Au-

4. The Celts.
5. The Iberians.
6. The Scandinavians.
7. The Ligurians.

thropology.
3. The Races of Britain.

Chapter III .- The Neolithic Culture.

1. The Continuity of De-7. Dress.

velopment. Habitations.

Metals.

9. The Boat. 10. The Ox-Wagon.

Weapons.

1. The Aryan Languages, 2. Dialect and Language, 3. The Lost Aryan Languages, 4. The Wave-Theory, 5. Language and Race, 6. The Gravity of Gravity, Space H. Trades. 4. Cattle.

6. The Genesis of Aryan Speech. 5. Husbandry, 12. Social Life.

13. Relative Progress. Chapter VI .- The Aryan Mythology. 6. Food.

The last ten years have seen a revolution in the opinion of scholars as to the region in which the Aryan race originated, and theories which not long ago were universally accepted as the wellestablished conclusions of science now hardly find a defender. The theory of migration from Asia has been displaced by a new theory of origin in Northern Europe. In Germany several works have been devoted to the subject; but this is the first English work which has yet appeared embodying the results recently arrived at try-philologists, archeologists, and anthropologists. This volume affords a tresh and highly interesting account of the present state of speculation on a highly interesting subject.

OF POPULAR SCIENCE.

No. 132 and No. 133.

[Two double numbers, 30 cents each.

EVOLUTION OF SEX .- By Prof. Patrick Geddes and J. Arthur

Thomson. - With 104 illustrations.

CONTENTS.

BOOK I .- MALE AND FEMALE.

Chapter I .- The Sexes and Sexual Selection.

Chapter II .- The Sexes, and Criticism of Sexual Selection.

Chapter III .- The Determination of Sex (Hypotheses and Observations. Chapter IV.—The Determination of Sex (Constructive Treatment).

BOOK H .- ANALYSIS OF SEX. - ORGANS. TISSUES, CELLS.

Chapter V .- Sexual Organs and Tissues.

Chapter VI .- Hermaphroditism.

Chapter VII .- The Sex-elements (General and Historical.

Chapter VIII .- The Egg-cell or Ovum.

Chapter IX .- The Male-cell or Sperm. X .- Theory of Sex: Its Nature and Chapter

BOOK III .- PROCESSES OF REPRODUCTION.

Chapter XI.—Sexual Reproduction.
Chapter XII.—Theory of Fertilization.
Chapter XIII.—Degenerate Sexual Reproduction. or Parthenogenesis.

Chapter XIV .- Asexual Reproduction.

Chapter XV .- Alternation of Generations.

BOOK IV .- THEORY OF REPRODUCTION.

Chapter XVI .- Growth and Reproduction.

Chapter XVII .- Theory of Reproduction (continued).

Chapter XVIII .- Special Physiology of Sex and Reproduction.

Chapter XIX .- Psychological and Ethical Aspects.

XX .- Laws of Multiplication. Chapter

XXI .- The Reproductive Factor in Chapter Evolution.

A work which, for range and grace, mastery of material, originality, and incisiveness of style and treatment, is not readily to be matched in the long list of books designed more or less to popularize science.—Scottish Leader.

A model of scientific exposition. - Scotsman.

No. 134.

[Double number, 30 cents.

THE LAW OF PRIVATE RIGHT.—By George H. Smith, author of "Elements of Right, and of the Law." and of Essays on "The Certainty of the Law, and the Uncertainty of Judicial Decisions," "The True Method of Legal Education." &c., &c.

CONTENTS.

Introduction.

I .- Explanation of the Design and Scope of the Work.

II .- Of the Definition of the Law.

III.—Of the Division of the Law.

Part I.

Of the Nature of the Law of Private Right.

Chapter I.

Analytical Outline of the Law of Private Right.

Chapter II.
Of the Nature of Right, and of the Law of Private
Right, and their Relation to Each Other.

PART II.

Of the Law of Private Right as Historically Developed.

Chapter I.

Of the Historical Development of Jurisdiction.

Chapter II.
Historical Development of the Law (as opposed to Equity).

Chapter III. Historical Development of Equity.

Part III.

Of the Nature and of the Method and Principles of Right.

Chapter I.

Definition of Rights.

Chapter II.
The Same Subject Continued, and herein, of the Standard of Right and Wrong.

Chapter III. Of the Method and First Principles of Eight.

Chapter IV.

Of the Limit to the Liberty of the Individual.

Imposed by the Rights of the State.

Chapter V.

Natural Rights Demonstrated from the Above Principles.

THE HUMBOLDT PUBLISHING CO., 28 Lafayette Place, New York.

N s = 65 100 107 148

Four double numbers 30 cents each.

CAPITAL: A Critical Analysis of Capitalist Production.—By KARL MALK - Translated from the third German edition by Samuel Moore

and Eleward Aveling, and edited by Frederick Engels.-The only American Edition. — Carefully Revised.

PART I.

COMMODITIES AND MONEY.

clipter 1 - Commodities

- a Elementary or Accidental Form of Value
 b Total or Expanded Form of Value
 The General Form of Value

- d: The Money Form.
- Capter II Exchange.

- Chapter III .- Money, or the Circulation of Commodities.
 - 1. The Measure of Values.
 2. The Medium of Circulation.
 - Money: hoarding, means of payment universal money.

PART II.

THE TRANSFORMATION OF MONEY INTO CAPITAL.

Chapter IV - The General Formula for Capital. | Chapter VI. - The Buying and Selling of Labor-Chapter V. - Contradictions in the General Formula of Capital.

power.

Part III.

THE PRODUCTION OF ABSOLUTE SURPLUS VALUE.

Chapter VII.—The Labor-process and the Process of Producing Surplus Value.

(hapter VIII — Constant Capital and Variable

Chapter IX.—The Rate of Surplus Value. Chapter X.—The Working Day. Chapter XL—Rate and Mass of Surplus Value.

Capital.

Part IV.

THE PRODUCTION OF RELATIVE SURPLUS VALUE.

Chapter XII.—The Concept of Relative Surplus | Chapter XIV.—Division of Labor and Manufacture.

Clapter XIII.-Co operation.

Chapter XV.— Machinery and Modern Industry.

Part V.

THE PRODUCTION OF ABSOLUTE AND OF RELATIVE SURPLUS VALUE.

Chapter XVI.—Absolute and Relative Surplus

Chapter XVII.-Changes of Magnitude in the price of Labor-power and in Surplus Value.

1 Chapter XVIII.- Various Formulæ for the Rate of Surplus Value.

Part VI.

WAGES.

Chapter XIX.—The Transformation of the Value (and respectively the Price) of Laborpower into Wages.

Chapter XX.—Time-wages. Chapter XXI.—Piece-wages. Chapter XXII.—National Differences of Wages.

PART VII.

THE ACCUMULATION OF CAPITAL.

Chapter XXIII.—Simple Reproduction. Chapter XXIV.—Conversion of Surplus Value into Capital.

Chapter XXV .- The General Law of Capitalist Accumulation.

Part VIII.

THE SO-CALLED PRIMITIVE ACCUMULATION.

Chapter XXVI.—The Secret of Primitive Accumulation

XXVII - Expropriation of the Agricul-· Wonditer

tural Population from the Land Chapter XXVIII.—Bloody Legislation against the Expropriated from the End of the 15th Century Forcing down of Wages by Acts of Parliament

Chapter XXIX -Genesis of the Capitalist Parmer.

Chapter XXX -- Reaction of the Agricultural Revolution on Industry. Creation of the Home Market for Industrial Capital.

Chapter XXXI.-Genesis of the Industrial Capitalist

Chapter XXXII .- Historical Tendency of Capitalistic Accumulation. Chapter XXXIII.—The Modern Theory of Col-

onization.

Published semi-monthly. \$3 a year. Single numbers, 15 cents.

No. 139.

LIGHTNING, THUNDER, AND LIGHTNING-CONDUCTORS.-By

GERALD MOLLOY, D.D., D.Se. - Illustrated.

CONTENTS.

LECTURE I.

LIGHTNING AND THUNDER.

Identity of Lightning and Electricity—Franklin's Experiment—Fatal Experiment of Richman— Immediate Cause of Lightning—Illustration from Electric Spark—What a Flash of Lightning is— Duration of a Flash of Lightning—Experiments of Professor Rood—Wheatstone's Experiments— Experiment with Rotating Disk—Brightness of a Flash of Lightning—Various Forms of Lightning—Forked Lightning. Sheet Lightning. Globe Lightning—8t. Elmo's Fire—Experimental Illustration—Origin of Lightning—Length of a Flash of Lightning—Physical Cause of Thunder—Rolling of Thunder—Succession of Peals—Variation of Intensity—Distance of a Flash of Lightning.

LECTURE II. LIGHTNING-CONDUCTORS.

Destructive Effects of Lightning—Destruction of Buildings—Destruction of Ships at Sea—Destruction of Powder Magazines—Experimental Illustrations—Destruction of Life by Lightning—The Return Shock—Franklin's Lightning-rods—Introduction of Lightning-rods into England—The Battle of Balls and Points—Functions of a Light-

ning-conductor — Conditions of a Lightning-conductor—Mischief Done by Bad Conductors—Evil Effects of a Bad Earth Contact—Danger from Rival Conductors—Insulation of Lightning-conductors—Personal Safety in a Thunder-storm—Practical Rules—Security afforded by Lightning-rods.

Appendix.

RECENT CONTROVERSY ON LIGHTNING-CONDUCTORS.

Theory of Lightning-conductors Challenged— Lectures of Professor Lodge—Short Account of his Views and Arguments—Effect of Self-induction on a Lightning-rod—Experiment on the Discharge of a Leyden Jar—Outer Shell only of a Lightningrod acts as a Conductor—Discussion at the Meeting of the British Association, September, 1888Statement by Mr. Preece—Lord Rayleigh and Sir William Thomson—Professor Rowland and Professor Forbes—M. de Fonvielle. Sir James Douglass, and Mr. Symons—Reply of Professor Lodge—Concluding Remarks of Professor Fitzgerald. President of the Section—Summary Showing the Present State of the Question.

No. 140.

WHAT IS MUSIC?—With an Appendix on How the Geometrical Lines have their Counterparts in Music.—By Isaac L. Rice.

CONTENTS.

Part I.

I — Chinese Theory.

II.—Hindoo Theory.

III - Egyptian Theory.

1V.—Grecian Theories.

V .- Arabic-Persian Theory,

VI. - Scholastic Theories.

VII. - Euler's Theory.

VIII. - Herbert Speucer's Theory.

IX. - Helmholtz's Theory.

PART II.

I.-Space and Time (Rest and Motion).

II. - Vibrations.

III .- Colors and Forms.

IV.—Internal Government.
V.—States of Mind.

Conclusion.

As the final result of his speculations, Mr. Rice denies that music is an invention by man, and holds that it exists in Nature: that it is "not accidental and human, but dunamical and cosmical." His view seems to me to be sustained by all the physical facts of Nature and all the experience of man.—RICHARD GRANT WHITE.

Published semi-monthly.-\$3 a year.-Single numbers, 15 cents.

No. 141.

THE EFFECTS OF USE AND DISUSE INHERITED? ARE

An Examination of the View held by Spencer and Darwin,-By WILLIAM in our Bond.

CONTLATS.

IMPORTANCE AND BEARING OF THE INQUIRY.

SPENCER'S EXAMPLES AND ARGUMENTS

Diminution of the Jaws. Diminished Biting Muscles of Lapdogs.

Crowded Teeth

Blind Cave-Crab No Concomitant Variation from Concomitant

Disease. The Giraffe, and Necessity for Concomitant

Variation.

Alleged Ruinous Effects of Natural Selection.

Adverse Case of Neuter Insects, Æsthetic Faculties, Lack of Evidence.

Inherited Epilepsy in Guinea-pigs, Inherited Insanity and Nervous Disorders Individual and Transmissible Type not Mod-

ified Alike.

DARWIN'S EXAMPLES.
Reduced Wings of Birds of Oceanic Islands. Drooping Ears and Deteriorated Instincts, Wings and Legs of Ducks and Fowls, Pigeon's Wings.

Shortened Breastbone in Pigeons.

Shortened Feet in Pigeons. Shortened Legs of Rabbits.

Blind Cave-Animals.

Inherited Habits

Tameness of Rabbits. Modifications Obviously Attributable to SelecSimilar Effects of Natural Selection and of Use-Inheritance

Inferiority of Senses in Europeans, Short-sight in Watchmakers and Engraver Larger Hands in Laborers' Intants.

Thickened Sole in Infants.

A Source of Mental Confusion, Weakness of Use-inheritance.

Inherited Injuries.
Inherited Mutilations.

The Motmot's Tail. Other Inherited Injuries Mentioned by Darwin. Quasi-Inheritance.

MISCELLANEOUS CONSIDERATIONS.

True Relation of Parents and Offspring.

Inverse Inheritance.

Early Origin of the Ova. Marked Effects of Use and Disuse on the fance? Individual. Would Natural Selection Favor Use-Inherit-

Use-Inheritance an Evil. Varied Effects of Use and Disuse.

Use-Inheritance Implies Pangenesis.

Pangenesis Improbable.

Spencer's Explanation of Use-Inheritance. Conclusions.

Use-Inheritance Discredited as Unnecessary.

Unproven, and Improbable.
Modern Reliance on Use-Inheritance Misplaced.

No. 142 and No. 143.

Two double numbers, 30 cents each.

A VINDICATION OF THE RIGHTS OF WOMAN.-With Strictures

on Political and Moral Subjects,-By Mary Wollstonecraft,-New Edition, with an Introduction by Mrs. Henry Fawcett.

CONTENTS.

Chapter L.—The Rights and Involved Duties of Mankind Considered.

Chapter 11.—The Prevailing Opinion of a Sexual Character Discussed.

Chapter III.—The Same Subject Continued.

Chapter IV .- Observations on the State of Degradation to which Woman is Reduced by Various Causes.

Chapter V.—Animadversions on Some of the Writers who have Rendered Women Objects of Pity, bordering on Contempt.

Chapter VI.—The Effect which an Early Asso-ciation of Ideas has upon the Character.

Chapter VII. - Modesty. - Comprehensively Considered, and not as a Sexual Virtue.

Chapter VIII .- Morality Undermined by Sexual Notions of the Importance of a Good Reputation.

Chapter IX.—Of the Pernicious Effects which arise from the Unnatural Distinctions established in Society.

Chapter X.—Parental Affection.

Chapter Xl.-Duty to Parents.

Chapter XII.-On National Education.

Chapter XIII.—Some Instances of the Polly which the Ignorance of Women generates; with Concluding Reflections on the Moral Improvement that a Revolution in Female Manners might naturally be expected to produce.

This edition is a reprint of the first edition, which appeared nearly one hundred years ago.

Women at the Present Time and Women a Hundred Years Ago.

The women of today can scarcely realize the conditions their sex had to confront in those old times; but the degradation was very real, and the protest against it was very much needed. Mrs. Faveett's introduction will be found highly interesting and belgful. New York Tribune.

LIST OF BOUND BOOKS

1N

THE HUMBOLDT LIBRARY SERIES.

The prices here given include postage, or express charges, to any country in the Postal Union.

Complete sets of The Humboldt Library, from No. 1 to No. 139, can be obtained uniform in size, style of binding, &c. The volumes average over 600 pages each, and are arranged thus:—

Vol	. I.	contains				•				$_{ m Numbers}$	1-12
• •	II.	4.6								4 -	13 - 24
••	III.	"									25 - 36
	IV.									4.	37-45
	V.	"								4.4	49 - 59
••	VI.	4.6								4.6	6070
	VII.	"								6 .	71-80
	VIII.	"								4.	81 - 91
• •	IX.	"								66	92—1 0 3
+4	X.	4.6								1	04111
. 6	XI.	"								1	12-118
	XII.	4.4								" 1	19—127
+ 4	XIII.	"								" 1	28—133
. 4	XIV.	44								" 1	34139

Cloth, extra. \$2 per vol., or \$28 per set of 14 vols.

Sold in separate vols., or in sets.

** We have some sets bound in finer bindings.—half seal and half morocco, marble edges,—which are sold only in complete sets (not odd volumes). Prices furnished on application.

Additional bound volumes of 600 pages (average) are added when the semi-monthly numbers will make a volume of the usual size.

WORKS BY CHARLES DARWIN.

- The Origin of Species by Means of Natural Selection, or the Preservation of Favored Races in the Struggle for Life.—New edition, from the latest English edition, with additions and corrections. Cloth. \$1.25
- The Descent of Man, and Selection in Relation to Sex.—With illustrations.—New edition, revised and augmented. Cloth. \$1.50
- The Formation of Vegetable Mould through the Action of Earthworms, with Observations on their Habits.—Illustrated. Cloth. 75 cents.

A COMPANION-BOOK TO DARWIN'S WORKS,

Charles Darwin: His Life and Work. - By GRANT ALLEN. Cloth. 75 cents.

Published semi-monthly. - \$3 a year. - Single numbers, 15 cents.

WORKS BY PROFESSOR HUXLEY.
Evidence as to Man's Place in Nature.—With numerous illustrations. On the Origin of Species; or, the Causes of the Phenomena of Organic Nature. Two books in one volume. Cloth
The Physical Basis of Life.—With other Essays. Lectures on Evolution.—With an Appendix on the Study of Biology. Two books in one volume. Cloth
Animal Automatism, and other Essays. Technical Education, and other Essays. Two books in one volume. Cloth
SELECT WORKS OF PROFESSOR JOHN TYNDALL.
Forms of Water in Clouds and Rivers, Ice and Glaciers.—Nineteen Illustrations.
Lessons in Electricity Sixty illustrations.
Six Lectures on Light.—Illustrated. Three books in one volume. Cloth
WORKS BY HERBERT SPENCER.
The Data of Ethics.—Cloth
Education: Intellectual, Moral, and Physical. Progress: Its Law and Cause.—With other Disquisitions.
Two books in one volume. Cloth
Two books in one volume. Cloth
The Genesis of Science. The Factors of Organic Evolution. Two books in one volume. Cloth
The Genesis of Science. The Factors of Organic Evolution.
The Genesis of Science. The Factors of Organic Evolution. Two books in one volume. Cloth
The Genesis of Science. The Factors of Organic Evolution. Two books in one volume. Cloth

SELECT WORKS OF WILLIAM KINGDON CLIFFORD, F.R.A.S.
Seeing and Thinking. The Scientific Basis of Morals, and other Essays.
Conditions of Mental Development, and other Essays.
The Unseen Universe.—Also The Philosophy of the Pure Sciences.
Cosmic Emotion.—Also. The Teachings of Science. Five books in one volume. Cloth
The sooks in one votable. Cloth
SELECT WORKS OF EDWARD CLODD, F.R.A.S.
The Childhood of Religions.
The Birth and Growth of Myths and Legends. The Childhood of the World.
Three books in one volume. Cloth
SELECT WORKS OF TH. RIBOT.
Translated from the French by J. FITZGERALD, M.A.
The Diseases of Memory.
The Diseases of the Will. The Diseases of Personality.
Three books in one volume. Cloth
THE MILKY WAY. CONTAINING
The Wonders of the Heavens.—With thirty-two Actinoglyph Illustrations. By CAMILLE FLAMMARION.
The Romance of Astronomy.—By R. Kalley Miller, M.A.
The Sun: Its Constitution; Its Phenomena; Its Condition.—By
Nathan T. Carr, LL.D. Three books in one volume. Cloth
POLITICAL SCIENCE.
Physics and Politics.—An Application of the Principles of Natural Selection
and Heredity to Political Society. — By Walter Bagehot, author of "The English Constitution."
History of the Science of Politics.—By Frederick Pollock. Two books in one volume. Cloth
THE LAND QUESTION.
The History of Landholding in England.—By Joseph Fisher, F.R.H.S.
Historical Sketch of the Distribution of Land in England.—By
By WILLIAM LLOYD BIRKBECK, M.A.
Two books in one volume. Cloth
THE HUMBOLDT PUBLISHING CO., 28 Lafayette Place, New York.

SELECT WORKS BY J. ALLANSON PICTON. The Mystery of Matter. Also, The Philosophy of Ignorance. The Essential Nature of Religion.
Two books in one volume. Cloth
SELECT WORKS BY ANDREW WILSON, F.R.S.E.
Science and Crime, and other Essays. Science and Poetry, and other Essays. Two books in one volume. Cloth
SELECT WORKS BY W. MATTIEU WILLIAMS, F.R.A.S., F.C.S. Current Discussions in Science. Scientific Aspects of Some Familiar Things. Two books in one volume. Cloth
SELECT WORKS BY J. F. C. HECKER, M.D. The Black Death.—An Account of the Deadly Pestilence of the Fourteenth Century. The Dancing Mania of the Middle Ages. Two books in one volume. Cloth
STANDARD WORKS BY VARIOUS AUTHORS.
The Naturalist on the River Amazons.—A Record of Adventures, Habits of Animals, Sketches of Brazilian and Indian Life, and Aspects of Nature under the Equator, during Eleven Years of Travel.—By Henry Walter Bates, F.L.S., Assistant Secretary of the Royal Geographical Society of England. Cloth. 75 ets.
The Rise and Early Constitution of Universities, with a Survey of Mediaval Education.—By S. S. Laurie, LL.D., Professor of the Institutes and History of Education in the University of Edinburgh. Cloth 75 cents.
The Religions of the Ancient World: including Egypt, Assyria and Babylonia, Persia, India, Phonicia, Etruria, Greece, Rome.—By George Raw-Linson, M.A., Camden Professor of Ancient History, Oxford, and Canou of Canterbury. Author of "The Origin of Nations," "The Five Great Monarchies," &c. Cloth.
Fetichism.—A Contribution to Anthropology and the History of Religion.—By FRITZ SCHULTZE, Dr.Phil.—Translated from the German by J. FITZGERALD. M.A. Cloth
Published semi-monthly.—\$3 a year.—Single numbers, 15 cents.

OF POPULAR SCIENCE.

STANDARD WORKS BY VARIOUS AUTHORS.

Money and the Mechanism of Exchange.—By W. Stanley Jevons M.A., F.R.S., Professor of Logic and Political Economy in the Owens College Manchester, England. Cloth
Manchester, England. Cloth
On the Study of Words.—By RICHARD CHENEVIX TRENCH, D.D., Archbishol of Dublin, Cloth
The Dawn of History.—An Introduction to Prehistoric Study.—Edited by C. F. Keary, M.A., of the British Museum. Cloth
Geological Sketches at Home and Abroad.—By Archibald Geikie LL.D., F.R.S., Director-General of the Geological Surveys of Great Britain and
Ireland, Cloth
III. ' A D. L. L. ' L. C. L. Der Trayer, Strayer and an of 650 condi-
Illusions: A Psychological Study.—By James Sully, author of "Sensation and Intuition," "Pessimism," &c. Cloth
The Pleasures of Life.—Part I. and Part II.—By Sir John Lubbock, Bart
Two Parts in One. Cloth
English, Past and Present.—Part I. and Part II.—By RICHARD CHENEVIS TRENCH. D.D., Archbishop of Dublin. Two Parts in Onc. Cloth 75 cents
The Story of Creation.—A Plain Account of Evolution.—By Edward Clodd F.R.A.S. With over eighty illustrations
Hypnotism: Its History and Present Development.—By Fredrik BJORNSTROM, M.D., Head Physician of the Stockholm Hospital, Professor of
Psychiatry, late Royal Swedish Medical Councillor. Cloth 75 cents.
Christianity and Agnosticism.—A controversy consisting of papers by Henry Wace, D.D., Prebendary of St. Paul's Cathedral; Principal of King's College, London.—Professor Thomas H. Hunley.—W. C. Magee, D.D., Bishop of Peterborough.—W. H. Mallock, Mrs. Humphry Ward. Cloth 75 cents.
The court of the c
Darwinism: An Exposition of the Theory of Natural Selection, with some of its applications.—By Alfred Russel Wallace, LL.D., F.L.S. With portrait of the author colored way and purposes illustrations (U.A. 2018).
With portrait of the author, colored map, and numerous illustrations. Cloth. \$1.25
The ablest living Darwinian writer.— Cincinnati Commercial Gazette.

The most important contribution to the study of the origin of species and the evolution of man which has been published since Darwin's death.— New York Sun.

There is no better book than this in which to look for an intelligent, complete, and fair presentation of both sides of the discussion on evolution.—New York Herald.

STANDARD WORKS BY VARIOUS AUTHORS.

- The Industrial Revolution of the Eighteenth Century in England.

 Popular Addresses, Notes, and other Fragments.—By the late Annold Toynbee.

 Tutor of Balliol College, Oxford.—Together with a short memoir by B. Jowett.

 Master of Balliol College, Oxford.

- 'Such a work as this, written by Prof. Geddes, who has contributed many articles on the same and kindred subjects to the Encyclopaedia Britannica, and by Mr. J. Arthur Thomson, is not for the specialist, though the specialist may find it good reading, nor for the reader of light literature, though the latter would do well to grapple with it. Those who have followed Darwin, Wallace, Huxley, and Haeckel in their various publications, and have heard of the later arguments against heredity brought forward by Prof. Weissmann, will not be likely to jet it down unread. . . . The authors have some extremely interesting ideas to state, particularly with regard to the great questions of sex and environment in their relation to the growth of life on earth. They are to be congratulated on the scholarly and clear way in which they have handled a difficult and delicate subject."—Times.

The great merit of Marx, therefore, lies in the work he has done as a scientific inquirer into the economic movement of modern times, as the philosophic historian of the capitalistic era. — Encyclopædia Bicciannica.

So great a position has not been won by any work on Economic Science since the appearance of The Wealth of Nations. . . . All these circumstances invest, therefore, the teachings of this particularly acute thinker with an interest such as can not be claimed by any other thinker of the present day. — The Athenaum.

A CATALOGUE RAISONNÉ,

Containing all the works in THE HUMBOLDT LIBRARY, up to and including No. 138, GROUPED ACCORDING TO THEIR_SUBJECT-MATTER, for the convenience of those who desire to become familiar with the results of scientific inquiry in any of the following departments:—

ASTRONOMY.

7.6 T. R. G.
No. 14.—THE WONDERS OF THE HEAVENS FLAMMARION.
No. 20.—THE ROMANCE OF ASTRONOMY MILLER.
No. 49.—THE SUN: ITS CONSTITUTION; PHENOMENA: CONDITION. CARR.
Essays on astronomical subjects are also contained in
No. 1LIGHT SCIENCE FOR LEISURE HOURS PROCTOR.
No. 19.—FAMILIAR ESSAYS ON SCIENTIFIC SUBJECTS PROCTOR.
No. 24.—POPULAR SCIENTIFIC LECTURES
No. 41.—CURRENT DISCUSSIONS IN SCIENCE
No. 82.—ILLUSIONS OF THE SENSES, AND OTHER ESSAYS PROCTOR.
No. 90NOTES ON EARTHQUAKES, ETC PROCTOR.
No. 120.—THE MODERN THEORY OF HEAT MOLLOY.

BIOCRAPHY.—HISTORY OF SCIENCE.

Actesia emo

BATES.

No. 43 - DARWIN AND HUMBOLDT

NO. 49.—DARWIN AND HUMBOLDI			AGASSIZ, LIC.
No. 80.—CHARLES DARWIN: HIS LIFE AND	work.		GRANT ALLEN.
No. 89THE GENESIS OF SCIENCE			. Spencer.
No. 96 (A HALF-CENTURY OF SCIENCE THE PROGRESS OF SCIENCE FROM			. Huxley.
THE PROGRESS OF SCIENCE FROM	1836 to	1886	GRANT ALLEN.

BIOLOGY. - ZOÖLOGY. - BOTANY.

Nos. 11 and 12.—THE NATURALIST ON THE RIVER AMAZONS. .

No. 26.—THE EVOLUTIONIST AT LARGE	•	•	•	٠		. Allen.
No. 29FACTS AND FICTIONS OF ZOÖLOGY.						. Wilson.
No. 33VIGNETTES FROM NATURE						. ALLEN.
No. 48LIFE IN NATURE						. Hinton.
No. 64.—THE DISTRIBUTION OF ANIMALS AND	ΡL	AN.	rs.	٠. ١	VALI	ACE, DYER.
No. 84.—STUDIES OF ANIMATED NATURE						, Dallas.
No. 92.—THE FORMATION OF VEGETABLE MOU	LD.					DARWIN.

See also under the head "Evolution."

THE HUMBOLDT PUBLISHING CO., 28 Lafayette Place, New York.

EARLY HISTORY OF MAN. No. 26. THE ORIGIN OF NATIONS. No. 11 and 15.—THE DAWN OF HISTORY. No. 60.—THE CHILDHOOD OF THE WORLD. No. 71.—ANTHROPOLOGY.—ARCHEOLOGY. No. 130 and 131.—THE ORIGIN OF THE ARVANS. ISAAC TAYLOR EDUCATION.—LANGUAGE. No. 5.—EDUCATION: INTELLECTUAL, MORAL, AND PHYSICAL, SPENCES No. 5.—THE STUDY OF LANGUAGES. No. 30 and 31.—THE STUDY OF WORDS. (THE PHILOSOPHY OF STYLE, SPENCER No. 31. (THE MOTHER TONGUE, BAIN, No. 66.—TECHNICAL EDUCATION. No. 91.—THE RISE OF UNIVERSITIES. LAURIE, No. 98.—THE TEACHING OF SCIENCE. CLIFFORD.
No. 60.= THE CHILDHOOD OF THE WORLD
No. 71.—ANTHROPOLOGY.—ARCH.EOLOGY. No. 130 and 131.—THE ORIGIN OF THE ARVANS. EDUCATION.—LANGUAGE. No. 5.—EDUCATION: INTELLECTUAL, MORAL, AND PHYSICAL. No. 5.—THE STUDY OF LANGUAGES. Nos. 30 and 31.—THE STUDY OF WORDS. (THE PHILOSOPHY OF STYLE. (THE MOTHER TONGUE. (THE MOTH
EDUCATION.—LANGUAGE. No. 5.—EDUCATION: INTELLECTUAL, MORAL, AND PHYSICAL. No. 5.—EDUCATION: INTELLECTUAL, MORAL, AND PHYSICAL. No. 5.—THE STUDY OF LANGUAGES. No. 30 and 31.—THE STUDY OF WORDS. TRENCH No. 34. (THE PHILOSOPHY OF STYLE, THE MOTHER TONGUE, No. 66.—TECHNICAL EDUCATION. No. 66.—TECHNICAL EDUCATION. No. 91.—THE RISE OF UNIVERSITIES. LAURIE No. 98.—THE TEACHING OF SCIENCE. CLIFFORD
EDUCATION.—LANGUAGE. No. 5.—EDUCATION: INTELLECTUAL, MORAL, AND PHYSICAL. No. 5.—THE STUDY OF LANGUAGES. Nos, 30 and 31.—THE STUDY OF WORDS. TRENCH No. 31. (THE PHILOSOPHY OF STYLE. THE MOTHER TONGUE. No. 66.—TECHNICAL EDUCATION. No. 66.—TECHNICAL EDUCATION. No. 91.—THE RISE OF UNIVERSITIES. CLIFFORD
No. 5.—EDUCATION: INTELLECTUAL, MORAL, AND PHYSICAL. No. 5.—THE STUDY OF LANGUAGES. No. 30 and 31.—THE STUDY OF WORDS. TRENCH No. 31. (THE PHILOSOPHY OF STYLE. THE MOTHER TONGUE. No. 66.—TECHNICAL EDUCATION. HUXLEY No. 91.—THE RISE OF UNIVERSITIES. CLIFFORD
No. 5.—THE STUDY OF LANGUAGES. Nos. 30 and 31.—THE STUDY OF WORDS. TRENCH No. 31. (THE PHILOSOPHY OF STYLE. SPENCER THE MOTHER TONGUE. BAIN. No. 66.—TECHNICAL EDUCATION. HUXLEY No. 91.—THE RISE OF UNIVERSITIES. LAURIE No. 98.—THE TEACHING OF SCIENCE. CLIFFORD
Nos, 30 and 31.—THE STUDY OF WORDS. TRENCH THE PHILOSOPHY OF STYLE. SPENCER THE MOTHER TONGUE. No. 66.—TECHNICAL EDUCATION. HUXLEY No. 91.—THE RISE OF UNIVERSITIES. LAURIE No. 98.—THE TEACHING OF SCIENCE. CLIFFORD
No. 31. (THE PHILOSOPHY OF STYLE, SPENCER THE MOTHER TONGUE. BAIN. No. 66.—TECHNICAL EDUCATION. HUXLEY No. 91.—THE RISE OF UNIVERSITIES. LAURIE No. 98.—THE TEACHING OF SCIENCE. CLIFFORD
No. 96.—THE RISE OF UNIVERSITIES
No. 96.—THE RISE OF UNIVERSITIES Laurie No. 98.—THE TEACHING OF SCIENCE
No. 91.—THE RISE OF UNIVERSITIES
No. 98.—THE TEACHING OF SCIENCE
No. 100.—SCIENCE AND POETRY WILSON
No. 105.—FREEDOM IN SCIENCE AND TEACHING HAECKEL
Nos. 108 and 109.—ENGLISH, PAST AND PRESENT TRENCH.
No. 21.+THE PHYSICAL BASIS OF LIFE, AND OTHER ESSAYS HUXLEY.
No. 53.= ANIMAL AUTOMATISM, AND OTHER ESSAYS HUXLEY
No. 6L-MISCELLANEOUS ESSAYS
No. 66 TECHNICAL EDUCATION
No. 73.—EVOLUTION IN HISTORY, LANGUAGE, &c Various authors.
ETHICS. MANNERS AND CUSTOMS.
No. 9THE DATA OF ETHICS Spencer.
No. 28FASHION IN DEFORMITY FLOWER.
No. 55THE SCIENTIFIC BASIS OF MORALS
No. 63PROGRESSIVE MORALITY FOWLER
No. 88 SCIENCE AND CRIME
No. 93.—CAPITAL PENISHMENT
EVOLUTION THEORY. DARWINISM.
No. 16THE ORIGIN OF SPECIES
No. 36.—LECTURES ON EVOLUTION
No. 40.—ORGANIC EVOLUTION

OF POPULAR SCIENCE.

EVOLUTION THEORY.—DARWI	NISM.
Nos. 58 and 59.—THE ORIGIN OF SPECIES	Darwin
No. 94.—THE FACTORS OF ORGANIC EVOLUTION,	SPENCER
No. 110THE STORY OF CREATION	Clobb
Nos 115 and 116.— DARWINISM	. A. R. WALLACE
Nos. 117 and 118.—MODERN SCIENCE AND MODERN THOUGH	T S. Laino
Nos. 132 and 133.—THE EVOLUTION OF SEX	Geddes and Thomson
	Wainwright
See also, for essays coming under this head.	
No. 17.—PROGRESS: ITS LAW AND CAUSE	SPENCER
No. 2L-THE PHYSICAL BASIS OF LIFE	HUXLEY
No. 73EVOLUTION IN HISTORY, LANGUAGE, &c	Various authors
0501007 050004017	
QEOLOGY.—GEOGRAPHY. No. 6TOWN GEOLOGY	
Nos, 38 and 39.—GEOLOGICAL SKETCHES.	
No. 104.—TROPICAL AFRICA	
Nos. 122 and 123.—THE ORIGIN OF ALPINE LAKES See, also.	various authors
	Hryter Byrs
No. 21.—THE PHYSICAL BASIS OF LIFE, AND OTHER ESS	J. L. J. H. CKLET
No. 41.—CURRENT DISCUSSIONS IN SCIENCE	
	. , WILLIAM
No. 41.—CURRENT DISCUSSIONS IN SCIENCE	WILLIAMS WILLIAMS
No. 41.—CURRENT DISCUSSIONS IN SCIENCE	WILLIAMS S WILLIAMS .— RACES.
No. 41.—CURRENT DISCUSSIONS IN SCIENCE	WILLIAMS WILLIAMS
No. 41.—CURRENT DISCUSSIONS IN SCIENCE	WILLIAMS S WILLIAMS .— RACES.
No. 41.—CURRENT DISCUSSIONS IN SCIENCE	WILLIAMS S WILLIAMS .— RACES.
No. 41.—CURRENT DISCUSSIONS IN SCIENCE. No. 79.—SCIENTIFIC ASPECTS OF SOME FAMILIAR THING MAN.—ORIGIN.—PLACE IN NATURE No. 4.—MAN'S PLACE IN NATURE. No. 71.—ANTHROPOLOGY.—ARCH.EOLOGY. Nos. 74, 75, 76, 77.—THE DESCENT OF MAN. Nos. 130 and 131.—THE ORIGIN OF THE ARYANS.	
No. 41.—CURRENT DISCUSSIONS IN SCIENCE. No. 79.—SCIENTIFIC ASPECTS OF SOME FAMILIAR THING MAN.—ORIGIN.—PLACE IN NATURE No. 4.—MAN'S PLACE IN NATURE. No. 71.—ANTHROPOLOGY.—ARCH.EOLOGY. Nos. 74, 75, 76, 77.—THE DESCENT OF MAN.	
No. 41.—CURRENT DISCUSSIONS IN SCIENCE. No. 79.—SCIENTIFIC ASPECTS OF SOME FAMILIAR THING MAN.—ORIGIN.—PLACE IN NATURE No. 4.—MAN'S PLACE IN NATURE. No. 71.—ANTHROPOLOGY.—ARCH.EOLOGY. Nos. 74, 75, 76, 77.—THE DESCENT OF MAN. Nos. 130 and 131.—THE ORIGIN OF THE ARYANS.	
No. 41.—CURRENT DISCUSSIONS IN SCIENCE. No. 79.—SCIENTIFIC ASPECTS OF SOME FAMILIAR THING MAN.—ORIGIN.—PLACE IN NATURE No. 4.—MAN'S PLACE IN NATURE. No. 71.—ANTHROPOLOGY.—ARCH.EOLOGY. Nos. 74, 75, 76, 77.—THE DESCENT OF MAN. Nos. 130 and 131.—THE ORIGIN OF THE ARYANS. MEDICINE.—EPIDEMICS.	
No. 41.—CURRENT DISCUSSIONS IN SCIENCE. No. 79.—SCIENTIFIC ASPECTS OF SOME FAMILIAR THING MAN.—ORIGIN.—PLACE IN NATURE No. 4.—MAN'S PLACE IN NATURE. No. 71.—ANTHROPOLOGY.—ARCHEOLOGY. Nos. 74, 75, 76, 77.—THE DESCENT OF MAN. Nos. 130 and 131.—THE ORIGIN OF THE ARYANS. MEDICINE.—EPIDEMICS. No. 15.—LONGEVITY. No. 67.—THE BLACK DEATH.	

THE HUMBOLDT LIBRARY

PHYSICS.

PHYSICS.	
No THE FORMS OF WATER.	. Tysdall.
$N \times 7 = THE$ CONSLEYATION OF ENERGY	Balpour Stewart.
$N_0 = 10 \pm THE$ THEORY OF SOLND IN ITS RELATION TO ME	SIC. BLASERNA.
No. 18 = LESSONS IN ELECTRICITY.	Tyndall
No 37 = LECTURES ON LIGHT,	Tyndalia
No. 106 FORCE AND ENERGY	GRANT ALLEN.
No. HRTHE ELECTRIC LIGHT	$M \circ LL \circ Y$
No. 120 — THE MODERN THEORY OF HEAT	Molloy.
Nos. 117 and 118.—MODERN SCIENCE AND MODERN THOUGHT	Laine.
	s. Johns
POLITICAL, ECONOMIC, AND FINANCIAL	SCIENCE.
No. 3.—PHYSICS AND POLITICS	
No. 27 LANDHOLDING IN ENGLAND	Fisher.
No. 42 HISTORY OF THE SCIENCE OF POLITICS	Pollock.
Nos. 50 and 51MONEY AND THE MECHANISM OF EXCHANGI	STANLEY JEVONS.
No. 78.—THE DISTRIBUTION OF LAND IN ENGLAND	Виккве к
No. 83 = PROFIT-SHARING.	. Sedley Taylor.
Nos 102 and 107.—ULTIMATE FINANCE	Выаск.
No. 103THE COMING SLAVERY	SPENCER
No 12L+UTILITARIANISM	. J. S. Mill
No 124 - THE QUINTESSENCE OF SOCIALISM	. SCHAFFLE
No. 125DARWINISM AND POLITICS	RITCHIE
Nov. 128 and 129.—THE INDUSTRIAL REVOLUTION	TOYNBEE
No. 134.—THE LAW OF PRIVATE RIGHT	Smith
Nos. 135, 136, 137.— CAPITAL	. Karl Marx
See also No. 68, Essays by Herbert Spencer,—No. 70, Essays by Spencer,—No.	90, Essays by Proctor
PSYCHOLOGY.—PHYSIOGNOM	ΛY.
No. 13MEND AND BODY.	Bain-
No. 22.—SEEING AND THINKING	CLIFFORD
No. 46THE DISEASES OF MEMORY	Вівот
No. 52THE DISEASES OF THE WILL	
Nos. 56 and 57ILLUSIONS: A PSYCHOLOGICAL STUDY	Sully
No. $\epsilon 2$ HLUSIONS OF THE SENSES	PROCTOR
No. 87 THE MORPHINE HABIT.	Ball

OF POPULAR SCIENCE.

PSYCHOLOGY.—PHYSIOGNOMY.
No. 95DISEASES OF PERSONALITY
No. 101DREAMSASSOCIATION OF IDEAS SULLY and ROBERTSON.
No. 112The psychology of attention Ribot.
No. 113.—HYPNOTISM: ITS HISTORY AND PRESENT DEVELOPMENT. BJÖRNSTRÖM.
Nos. 127 and 128PHYSIOGNOMY AND EXPRESSION MANTEGAZZA.
See, also. No. 32.—HEREDITARY TRAITS, AND OTHER ESSAYS PROCTOR.
No. 53ANIMAL AUTOMATISM, AND OTHER ESSAYS HUXLEY.
No. 65.—CONDITIONS OF MENTAL DEVELOPMENT
RELICION.—MYTHOLOGY.
No. 35.—ORIENTAL RELIGIONS
No. 47THE CHILDHOOD OF RELIGIONS
No. 34.—THE BIRTH AND GROWTH OF MYTH
No. 62THE RELIGIONS OF THE ANCIENT WORLD RAWLINSON.
No. 69.—FETICHISM
No. 81THE MYSTERY OF MATTER, ETC Picton.
No. 85THE ESSENTIAL NATURE OF RELIGION Picton.
See also No. 68, Essays by Herbert Spencer.—No. 90, Essays by Proctor.
SCIENTIFICO-PHILOSOPHICAL SPECULATION.
No. 3.—PHYSICS AND POLITICS
No. 20THE ROMANCE OF ASTRONOMY
No. 48LIFE IN NATURE
No. 81MYSTERY OF MATTERPHILOSOPHY OF IGNORANCE Picton.
No. 85THE ESSENTIAL NATURE OF RELIGION Picton.
No. 86 UNSEEN UNIVERSEPHILOSOPHY OF PURE SCIENCES CLIFFORD.
No. 89THE GENESIS OF SCIENCE Spencer.
Nos. 97 and 111.—THE PLEASURES OF LIFE LUBBOCK.
No. 98COSMIC EVOLUTION,-TEACHINGS OF SCIENCE CLIFFORD.
No. 105.—FREEDOM IN SCIENCE AND TEACHING HAECKEL.
No. 114.—CHRISTIANITY AND AGNOSTICISM
Nos. 117 and 118MODERN SCIENCE AND MODERN THOUGHT 8. Laing.
(DARWINISM AND POLITICS, RITCHIE.
No. 125. (ADMINISTRATIVE NIHILISM

MISCELLANEOUS.

No	1 LIGHT SCIENCE FOR LEISURE HOURS.	•						Proctor
V.o	T-PROGRESS: IIS LAW AND CAUSE							SPESCER.
×.,	19 = PAMILIAR LISSAYS ON SCHENTIFIC SUBJ	H:C	TS.					Proctor.
No	2L-THE PHYSICAL BASIS OF LIFE, AND O	T 11 1	ER	£8	5.1	YS.		Нехъы.
× ,	4L=CURRENT DISCUSSIONS IN SCIENCE							${\rm Williams}.$
No.	4- LIFE IN NATURE							HINTON.
No.	33ANIMAL AUTOMATISM, AND OTHER ESS.	AYS	Ç.					HUXLEY.
No.	61MISCELLANEOUS ESSAYS.							PROCTOR.
No.	70.—ESSAYS, PRACTICAL AND SPECULATIVE.							SPENCER.
Nο.	73. EVOLUTION IN HISTORY, LANGUAGE, AN	b	SCI	EN	Œ.		Vari	ous authors.
No.	79.= SCIENTIFIC ASPECTS OF SOME FAMILE	ХR	тн	INC	ıs.			WILLIAMS.
No.	82ILLUSIONS OF THE SENSES, AND OTHER	R J	388	AYS	٠.		,	Рвостов.
No.	86UNSEEN UNIVERSEPHILOSOPHY OF PU	RE	- 50	CIE	NC	ES.		CLIFFORD.
Nos.	97 and 111.—THE PLEASURES OF LIFE							Lиввоск.
No.	98. COSMIC EVOLUTION. TEACHINGS OF SC	IEN	CE					CLIFFORD.
No.	99.=NATURE-STUDIES						Vario	ous authors.
No.	100.=SCIENCE AND POETRY							Wilson.
No.	103.= THE COMING SLAVERY, ETC							SPENCER.
No.	114 CHRISTIANITY AND AGNOSTICISM					Hux	LEY	and others.

A NEW SERIES

TO BE PUBLISHED BY

THE HUMBOLDT PUBLISHING CO.

THE SOCIAL SCIENCE LIBRARY

THE BEST AUTHORS.

In cheap editions for the Public.— To be published monthly.

Paper, 25 cents, or \$2.50 a year.

PAYABLE IN ADVANCE

Cloth, 75 cents, or \$7.50 a year.

Ready, January 1.

SIX CENTURIES OF WORK AND WAGES.

By James E. Thorold Rogers, M.P., Professor of Political Economy, Oxford, England, Abridged, with Charts and Summary, by W. D. P. BLISS.

Ready, February 1.

MILL ON SOCIALISM.

The only collection of John Stuart Mill's writings on Socialism.

TO BE FOLLOWED BY

WILLIAM MORRIS,-POET, ARTIST, SOCIALIST.

FACTS ON SOCIALISM.

A collection of facts, mainly American, bearing on Socialism or Nationalism.



A SPLENDID COMPILATION OF MOST VALUABLE MATERIAL.

The Humboldt Library is a splendid compilation of most valuable material. It is hard to concerve of anything so valuable being had for the same amount of money, containing the best thoughts of the best men of the time, and put in such readable and accessible shape.

Erastus Wiman.

WHAT THE INTELLECTUAL GIANTS ARE THINKING AND WRITING ABOUT.

(Prom the Industrial and Commercial Gazette, Chicago.)

The publishers of *The Humboldt Library* have opened a mine of literary wealth, and they place before the reader a list of books indispensable to every intelligent man and woman who desires to know what the intellectual giants are thinking and writing about.

CHOICE SPECIMENS OF LITERATURE AND SCIENCE.

[From The Lutheran, Philadelphia, Pa.]

The Humboldt Library embraces in its numbers some choice specimens of literature and science. Its large page and good type make it pleasurable to peruse. Its master-writers are Darwin, Huxley, Tyndall, Spencer, Clifford, Romanes, Grant Allen, and their associates, yet there are many numbers of great interest to the special student, whether he be psychologist, sociologist, or naturalist; and others of equal interest to the general literary reader.

WILL MAKE A NATION OF SCHOLARS OF OUR PEOPLE.

[From The National Economist, Washington, D. C.]

The publications of The Humboller Publishing Co, are a boon to the industrial classes. They comprise the works of the most eminent scientists of the age, and are furnished at a price that even the poorest may enjoy the privilege of reading them. No course of reading could be of greater benefit to the average citizen or youth than the publications of this company. Every field of science is represented, and the researches of the ablest minds are put before the readers in a form adapted to the understanding of any. " " " Such publications will make a nation of scholars of our people if they will only improve the opportunity this company offers.

THESE REMARKABLY CHEAP PRODUCTIONS.

[Extract from The Publishers' Circular, London, England. May 1, 1889.]

The Humboldt Publishing Co., of New York, seems to be what is called across the Atlantic a "live" concern. Its aim is high, for apparently despising the broad realm of fiction, it proposes to provide the public with the great classics of modern science; strong meat for them that are of full age; and all this for a beggarly lifteen cents a volume! In other words, the works of such men as Darwin, Tyndall, Huxley, R. A. Proctor, Herbert Spencer, Bagehot, Bain, W. K. Clifford, Charles Kingsley, Sir John Lubbock, and many other celebrated English authors are placed before the public at sevenpence halfpenny a volume. * * * They are supplying the British Isles and colonies with these remarkably cheap productions.

EVERY VOLUME IS OF ACKNOWLEDGED EXCELLENCE.

[From The Evening Mercury, St. John's, Newfoundland.]

Among the numerous issues of books at once good and cheap, those of *The Humboldt Library* hold a foremost place. One volume is published monthly, and the series now numbers over one hundred volumes. The paper and type are excellent,—all that could be desired,—and the price is a perfect marvel even in these days of cheap literature. * * * On the score of mere *cheapmess*—the quality of paper and type and the quantity of matter being taken into account—*The Humboldt Library* carries off the palm. In many instances the price is about one tenth that charged by other publishers for the same book, in cloth binding.

Books, however, like other articles, may be at once "cheap and nasty." Not so with the issues of *The Humboldt Library*. Nearly every volume is one of acknowledged excellence. All trashy productions are excluded, and only those of writers who belong to the front rank in their several departments find admission into *The Humboldt*.

Nearly all the volumes belong to the scientific and philosophical class of books, especially such as are popular in style and adapted to educated tastes. The order of novel-readers will find no food to suit them in *The Humboldt*; but the thoughtful and intelligent—those who wish to make themselves acquainted with the foremost writers in the domains of science, in philosophic speculation, in morals, in political economy, in the science of politics, in the history of religions, in physiology and medicine, in the general evolution of humanity, will find in *The Humboldt* the productions of the master minds of the age,—the great leaders of modern thought.



RETURN TO the circulation desk of any University of California Library or to the

NORTHERN REGIONAL LIBRARY FACILITY Bldg. 400, Richmond Field Station University of California Richmond, CA 94804-4698

ALL BOOKS MAY BE RECALLED AFTER 7 DAYS

- 2-month loans may be renewed by calling (510) 642-6753
- 1-year loans may be recharged by bringing books to NRLF
- Renewals and recharges may be made 4 days prior to due date

DUE AS STAMPED BELOW							
SEP	3 (19 3						

U.C. BERKELEY LIBRARIES

C005518183

239880

